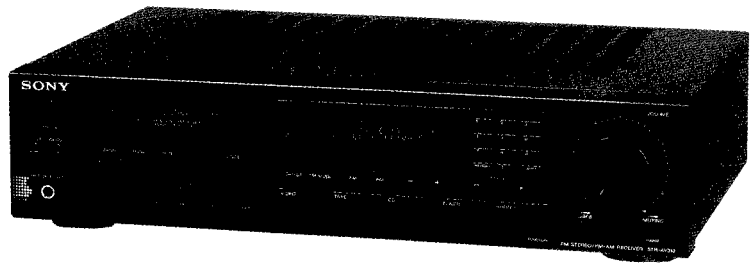
STR-AV210/AV310

SERVICE MANUAL

AEP Model
STR-AV210/AV310

UK Model
STR-AV310



This photo is STR-AV310.

SPECIFICATIONS

Continuous RMS power output
STR-AV210: 20 W + 20 W (8 ohms, at 40 Hz – 20 kHz less than 0.8% total harmonic distortion)
STR-AV310: AEP, WG models
30W + 30W (8 ohms, at 40Hz—20kHz less than 0.8% total harmonic distortion)
STR-AV310: UK model
50W + 50W (8 ohms, at 40Hz—20kHz less than 0.8% total harmonic distortion)

Power output
DIN: STR-AV210 30 W + 30 W (4 ohms at 1 kHz 0.7%)
STR-AV310 AEP, WG models
50W + 50W (4 ohms at 1kHz 0.7%)
STR-AV310 UK model
55W + 55W (8 ohms at 1kHz 0.7%)
IEC: STR-AV210 30 W + 30 W (4 ohms at 1 kHz 0.7%)
STR-AV310 AEP, WG models
50W + 50W (4 ohms at 1kHz 0.7%)
STR-AV310 UK model
55W + 55W (8 ohms at 1kHz 0.7%)

Harmonic distortion
Less than 0.8% at rated output

Frequency response
PHONO: RIAA equalization curve ±0.5 dB
CD, VIDEO, TAPE: 40 Hz – 50 kHz $^{+0}_{-3}$ dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	2.5 mV	50 kilohms	74 dB 72 dB* (A, 2.5 mV)
CD VIDEO TAPE	150 mV	50 kilohms	95 dB 80 dB* (A, 150 mV)

* '78 IHF

Outputs

REC OUT, VIDEO (AUDIO) OUT	Voltage 150 mV Impedance 10 kilohms
SPEAKER A, B	Accepts speakers of 4—16 ohms (STR-AV210/AV310: AEP, WG models) or 8—16 ohms (STR-AV310: UK model)
HEADPHONES	Accepts low and high impedance headphones

Tone controls BASS: ±8 dB at 100 Hz
TREBLE: ±8 dB at 10 kHz
Muting −20 dB (STR-AV310 only)

	FM tuner section	AM tunersection
Tuning range	87.5 – 108 MHz	531 – 1,602 kHz
Antenna terminals	75 ohms, unbalanced	External antenna terminal
Sensitivity at 40 dB quieting	18.3 dBf, 4.5 μV (mono) 38.3 dBf, 45 μV (stereo)	—
Usable sensitivity	11.2 dBf, 2 μV (IHF)	Loop antenna: 500 μV (at 1000 kHz)
Signal-to-noise ratio	76 dB (mono) 70 dB (stereo)	54 dB (at 50mV/m)

— continued on next page —

MICROFILM

FM STEREO/FM-AM RECEIVER

SONY®

	FM tuner section	AM tuner section
Harmonic distortion	0.3% (mono), 0.5% (stereo) at 1 kHz	0.5% (at 50 mV/m, 400 Hz)
Selectivity	60 dB at 400 kHz	30 dB at 9 kHz
Separation	45 dB at 1 kHz	——
Frequency response	30 Hz – 15 kHz $^{+0.5}_{-2}$ dB	——

General

System
Tuner section: PLL quartz-locked digital synthesizer system
Preamplifier section: low-noise NF type equalizer amp
Power amplifier section: quasi-complementary SEPP

Power requirements
STR-AV210/AV310: AEP, WG models: 220V AC, 50/60Hz
STR-AV310: UK model: 240V AC, 50/60Hz

Power consumption
STR-AV210: 80 W
STR-AV310: AEP, WG models: 120W
STR-AV310: UK model : 230W
In standby condition: 5 watts (STR-AV310 only)

AC outlets
One switched (100 watts) (STR-AV310 only)

Dimensions
Approx. 430 × 105 × 300 mm (w/h/d) (17 × 4 1/8 × 11 7/8 inches) including projecting parts and controls

Weight
Approx 6 kg (13 lb 4 oz) net (STR-AV210)
Approx. 6.4kg (14 lb 2oz) net (STR-AV310: AEP, WG models)
Approx. 6.5kg (14 lb 5oz) net (STR-AV310: UK model)

Accessories supplied
Remote Commander RM-S70 (1) (STR-AV310: AEP, WG models)
Remote Commander RM-U90 (1) (STR-AV310: UK model)
Sony batteries SUM 3(NS) (2) (STR-AV310 only)
FM wired antenna (1) (Except for WG model)
AM loop antenna (1)

WARNING !!

ADVARSEL!
Lithiumbatteri – Eksplosionsfare
Udskiftning må kun foretages af en sagkyndig, og som beskrevet i servicemanualen.

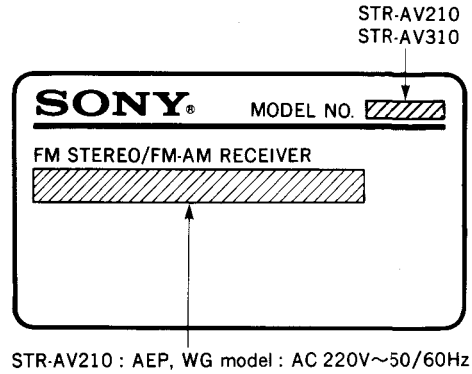
LITHIUM BATTERY

SHOULD ONLY BE CHANGED BY TECHNICAL PERSONNEL. THERE IS A RISK FOR EXPLOSION AT A WRONG HANDLING.

"Batteriet må kun udskiftes med et batteri af samme fabrikat og type".

Because of the risk for explosion the battery must be replaced with the same type and manufacture.

MODEL IDENTIFICATION
—Model Number Label—



STR-AV210 : AEP, WG model : AC 220V~50/60Hz
STR-AV310 : AEP, WG model : AC 220V~50/60Hz
STR-AV310 : UK model : AC 240V~50/60Hz
(WG: West Germany)

TABLE OF CONTENTS

Section *Title* *Page*

1. GENERAL
1-1. Location and Function of Controls 3

2. ELECTRICAL ADJUSTMENTS 5

3. DIAGRAMS
3-1. Block Diagram 6
3-2. Semiconductor Lead Layouts 9
3-3. Printed Wiring Boards 10
3-4. Schematic Diagram 13

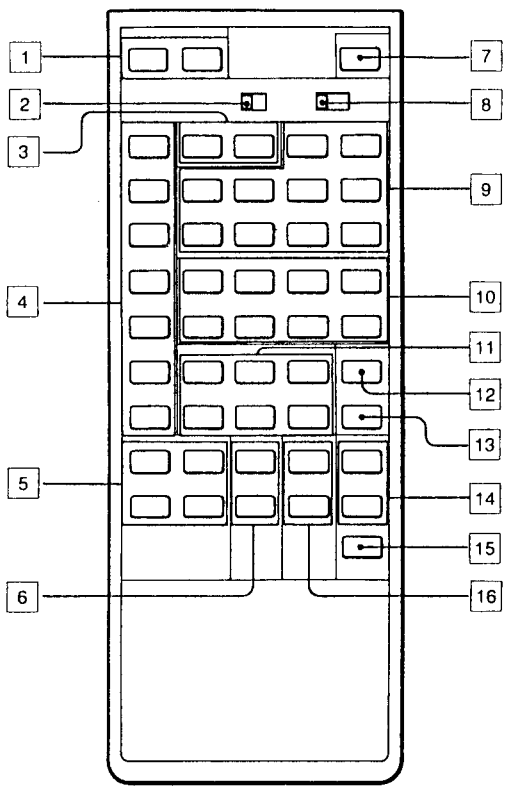
4. EXPLODED VIEWS
4-1. Cabinet, Front Panel Section 18
4-2. Chassis Section 19

5. ELECTRICAL PARTS LIST 20

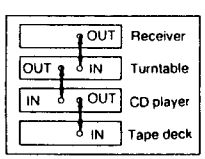
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Remote Commander RM-U90 (STR-AV310 : UK model only)



Notes on the remote commander
For the functions other than the receiver's own ones, the remote commander is effective only when the CONTROL S OUT jack on the back of the receiver is connected to the CONTROL S IN jacks of the respective components, as shown. For connection, use the special cables supplied with your components.
If the components have remote sensor with R mark, the components can be controlled with the remote commander without CONTROL S connection.



1 TV/VTR POWER buttons
TV: Turns the power of the TV on or off.
VTR: Turns the power of the VTR on or off.

2 DECK selector
A: Selects the tape in a single-deck unit or the tape in the "A" deck of a double-deck unit.
B: Selects the tape in the "B" deck of a double-deck unit.

3 PHONO buttons
START: Starts record play.
STOP: Stops record play.

4 Function selectors

5 TV CH (channel) and VOL (volume) buttons
CH+: Selects a higher numbered channel.
CH−: Selects a lower numbered channel.

VOL+: Increases the TV sound level.
VOL−: Decreases the TV sound level.

6 VTR CH (channel) buttons
+: Selects a higher-numbered channel.
−: Selects a lower-numbered channel.

7 POWER button
Turns off the power of the receiver on or off.

8 VTR selector
Used to select the type of the VTR.
1: Betamax VTRs
2: 8 mm VTRs
3: VHS VTRs

9 CD buttons
▶: Starts play.
❚❚: Pause
■: Stops play.
⏮/⏭: AMS (Automatic Music Sensor)
PGM: Program play.
DISC SKIP: Disc skip (for a CD player equipped with 5 disc trays)
REPEAT: Repeat play.
SHUFFLE: Shuffle play.
CONTINUE: Continuous play.

10 TAPE buttons
◀◀: Reverse fast winding
◀: Reverse play
▶: Forward play
▶▶: Forward fast winding
■: Stop
❚❚: Pause
●: Recording (While pressing ●, press ◀ or ▶)
○: Record muting

11 VTR buttons
◀◀: Rewind
▶: Play
▶▶: Fast forward
■: Stop
❚❚: Pause
●: To start recording (While pressing ●, press ▶)

12 ANT (antenna) TV/VTR button
Selects the output signal from the antenna terminal on the VTR, either a TV signal or VTR programs.

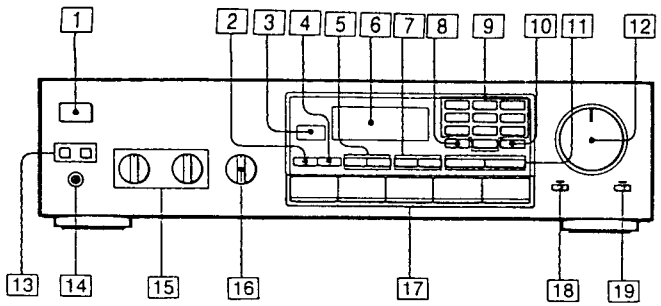
13 TV/VIDEO button
Selects the input signal to the TV set, either a TV signal or VTR programs.

14 VOL (volume) control buttons
Adjust the sound level.

15 MUTING button

16 TUNER PRESET buttons
+: Selects the higher preset number.
−: Selects the lower preset number.

1-1. LOCATION AND FUNCTION OF CONTROLS



[1] **SYSTEM POWER switch** (STR-AV310)
POWER switch (STR-AV210)

[2] **DIRECT TUNING button**

[3] **Remote sensor** (STR-AV310 only)

[4] **FM MODE button**
When an FM stereo program is noisy or hard to receive, press this button. The STEREO indicator goes out (the sound is heard in monaural, but the reception will be improved). To return to the stereo mode, press again or change the frequency.

[5] **BAND selectors**

[6] **Display window**

[7] **TUNING +/– buttons**

[8] **MEMORY button**

[9] **Numeric buttons**

[10] **SHIFT button**

[11] **PRESET +/– buttons**

[12] **VOLUME control and indicator**
The indicator is only equipped with the STR-AV310

[13] **SPEAKERS selectors**
Depress to select which speaker system to drive. For both speaker systems, depress A and B.

[14] **HEADPHONES jack** (stereo phone jack)

[15] **TONE controls**
Turn the TREBLE control to adjust the high frequency sound. Turn BASS control to adjust the low frequency sound.

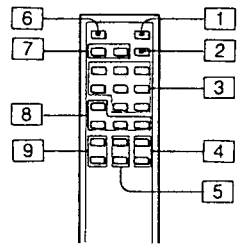
[16] **BALANCE control**
Turn clockwise to decrease the left channel volume, and turn counterclockwise to decrease the right channel volume.

[17] **Function selectors**

[18] **DBFB** (Dynamic Bass Feed Back) button and indicator
To reinforce the bass frequency sound, press this button.

[19] **MUTING button and indicator** (STR-AV310 only)
Press to attenuate the sound level immediately (–20 dB ATT). Pressing this button makes the indicator be lighted. To restore the sound level, press again.

Remote Commander RM-S70 (STR-AV310 : AEP, WG models only)



[1] **POWER switch**

[2] **DBFB button**

[3] **Tape deck operation buttons**
TAPE ◄ or ►: Selects the TAPE function and starts tape playback.
DECK A/B: Set this switch to select a deck of a double-deck unit.

[4] **VOLUME +/– buttons**

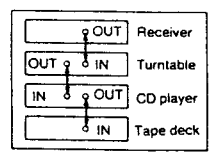
[5] **TUNER PRESET +/– buttons**
Depress to tune in a preset station.

[6] **MUTING button**

[7] **Turntable system operation buttons**
PHONO START: Selects the PHONO function and starts the playing of a phono disc.

[8] **CD player operation buttons**
DISC SKIP: When your CD player is equipped with 5 disc trays, use this button to skip loaded disc.
CD►: Selects the CD function and starts CD playback.

[9] **TUNER/VIDEO function buttons**
Select TUNER or VIDEO function.



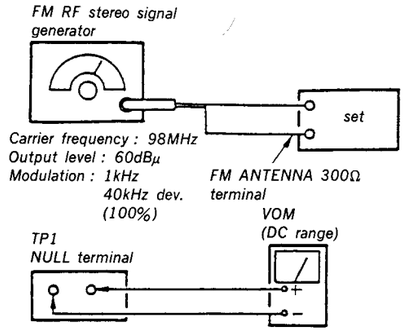
Notes on the remote commander
For the functions other than the receiver's own ones, the remote commander is effective only when the CONTROL S OUT jack on the back of the receiver is connected to the CONTROL S IN jacks of the respective components, as shown. For connection, use the special cables supplied with your components.
If the components have remote sensor with S mark, the components can be controlled with the remote commander without CONTROL S connection.

SECTION 2
ELECTRICAL ADJUSTMENTS

FM SECTION

• FM Discriminator (NULL) Adjustment

Setting :



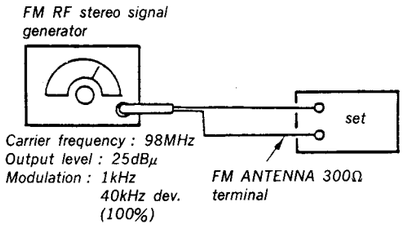
Procedure :

1. Tune the set to 98MHz.
2. Adjust T21 for 0V reading on the VOM.

Note : FM Tuning Level adjustment should be made after FM discriminator adjustment.

• FM Stereo Operation Level Adjustment

Setting :

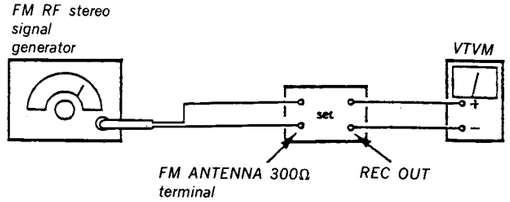


Procedure :

1. Tune the set to 98MHz.
2. Adjust RV24 so that the STEREO LED goes on.

• FM Stereo Separation Adjustment

Setting :



Carrier frequency : 98MHz
Output level : 60dBμ
Modulation :
Audio (1kHz) : 16.25kHz dev. (40.6%)
Pilot (19kHz) : 7.5kHz dev. (18.8%)
Sub-channel (38kHz) : 16.25kHz dev. (40.6%)

Procedure :

Tune the set to 98MHz.

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV21 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV21 for minimum reading.

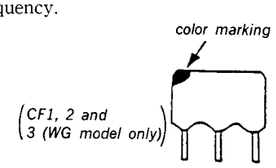
L-CH Stereo separation : Ⓐ−Ⓑ

R-CH Stereo separation : Ⓒ−Ⓓ

The separations of both channels should be equal.

Note on Ceramic Filter (CF1, 2 and 3 (WG model only)) Replacement

This set employs three ceramic filters (CF1, 2 and 3 (WG model only)) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by (* A, * B) connection is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



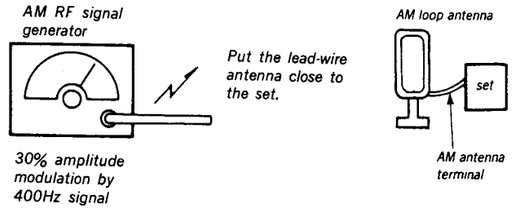
○ : short
× : open

Ceramic filter		Connection		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	* A (D321)	* B (D324)	
White	10.750	○	×	10.750
Red	10.700	×	×	10.700
Black	10.650	○	○	10.650

AM SECTION

• AM Meter Adjustment

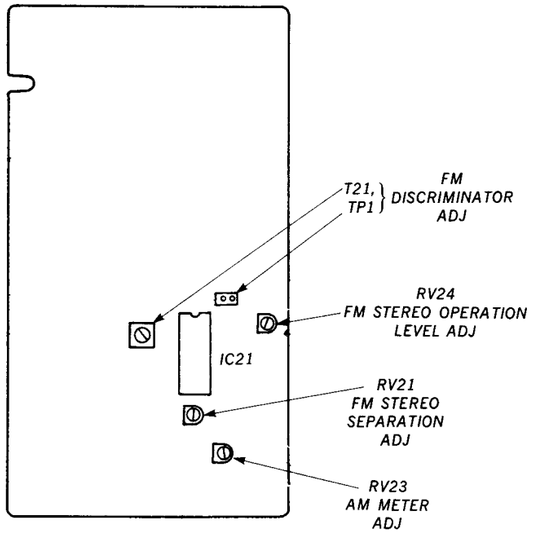
Setting :


AM RF signal generator
Put the lead-wire antenna close to the set.
AM loop antenna
set
AM antenna terminal
30% amplitude modulation by 400Hz signal

Procedure :

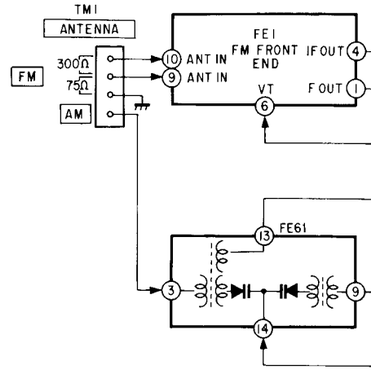
1. Tune the set to 1,404kHz.
2. Adjust the RV23 so that the 4 point segment of the signal meter goen on.

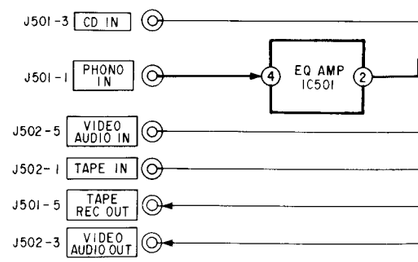
Adjustment Location : tuner board



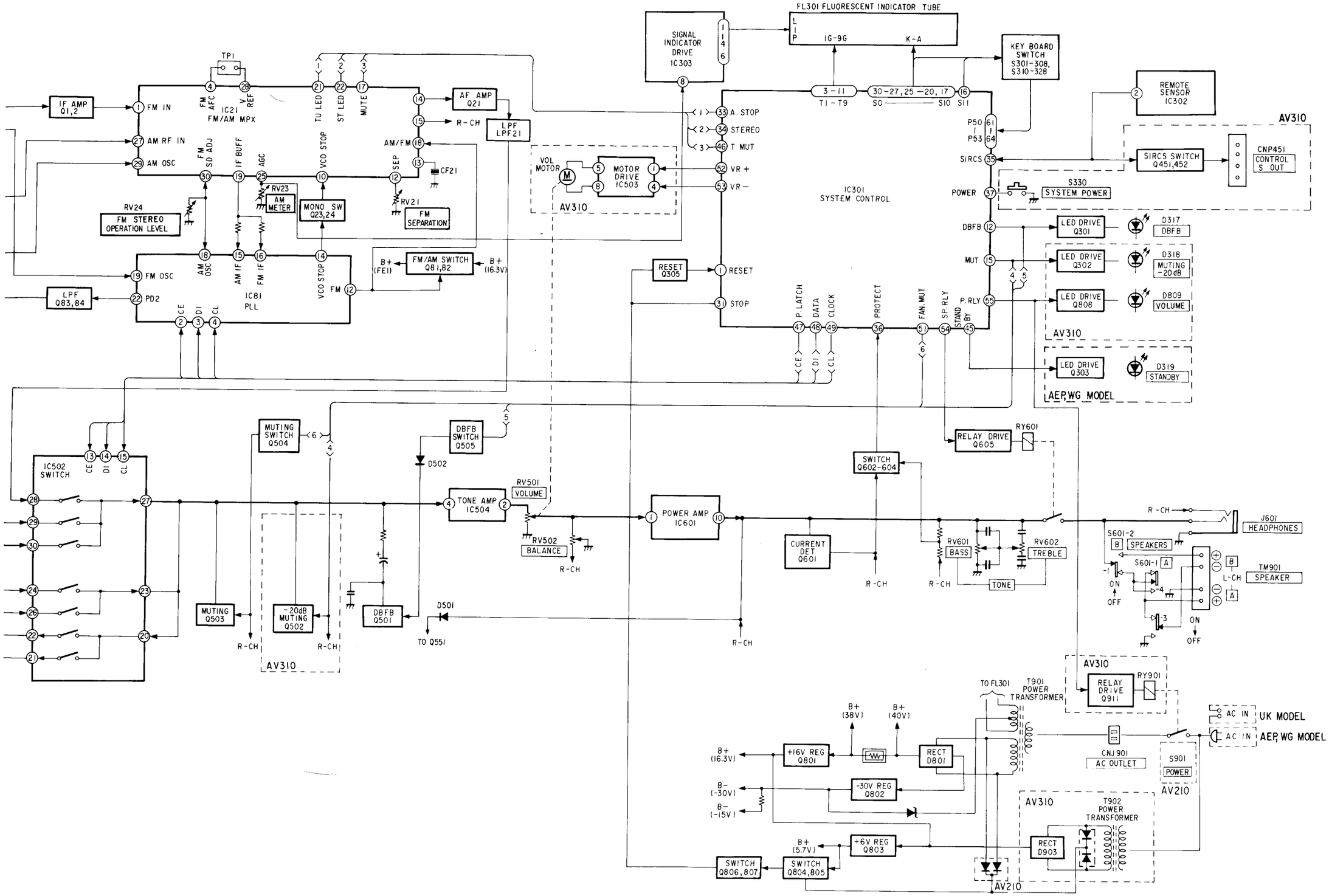
SECTION 3
DIAGRAMS

3-1. BLOCK DIAGRAM



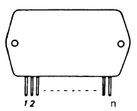


— R-CH IS OMISSION —


TP1
IF AMP Q1,2
FM IN
AM RF IN
AM OSC
FM OSC
PD2
LPF Q83,84
IC21 FM/AM MPX
FM AFC
V REF
TU LED
ST LED
MUTE
AF AMP Q21
R-CH
LPF LPF21
AM/FM
SEP
CF21
FM SD ADJ
IF BUFF
AGC
VCO STOP
RV24 FM STEREO OPERATION LEVEL
RV23 AM METER
MONO SW Q23,24
RV21 FM SEPARATION
AM OSC
AM IF
FM IF
VCO STOP
FM
B+ (FEI)
FM/AM SWITCH Q81,82
B+ (16.3V)
IC81 PLL
CE
DI
CL
SIGNAL INDICATOR DRIVE IC303
FL301 FLUORESCENT INDICATOR TUBE
IG-9G
K-A
KEY BOARD SWITCH S301-308, S310-328
REMOTE SENSOR IC302
AV310
SIRCS SWITCH Q451,452
CNP451 CONTROL S OUT
S330 SYSTEM POWER
VOL MOTOR
MOTOR DRIVE IC503
A. STOP
STEREO
T MUT
VR +
VR −
IC301 SYSTEM CONTROL
RESET Q305
RESET
STOP
P.LATCH
DATA
CLOCK
PROTECT
FAN.MUT
SP.RLY
STAND BY
SIRCS
POWER
DBFB
MUT
P.RLY
LED DRIVE Q301
LED DRIVE Q302
LED DRIVE Q808
LED DRIVE Q303
D317 DBFB
D318 MUTING -20dB
D809 VOLUME
D319 STANDBY
AEP,WG MODEL
IC502 SWITCH
MUTING SWITCH Q504
DBFB SWITCH Q505
D502
TONE AMP IC504
RV501 VOLUME
RV502 BALANCE
POWER AMP IC601
RELAY DRIVE Q605
RY601
SWITCH Q602-604
CURRENT DET Q601
RV601 BASS
RV602 TREBLE
TONE
J601 HEADPHONES
S601-2
SPEAKERS
S601-1
TM901 SPEAKER
L-CH
ON
OFF
MUTING Q503
-20dB MUTING Q502
DBFB Q501
D501
TO Q551
TO FL301
T901 POWER TRANSFORMER
RELAY DRIVE Q911
RY901
AC IN
UK MODEL
AEP,WG MODEL
CNJ901 AC OUTLET
S901 POWER
AV210
+16V REG Q801
RECT D801
-30V REG Q802
+6V REG Q803
RECT D903
T902 POWER TRANSFORMER
SWITCH Q806,807
SWITCH Q804,805
B+ (38V)
B+ (40V)
B- (-30V)
B- (-15V)
B+ (5.7V)

3-2. SEMICONDUCTOR LEAD LAYOUTS

STK-4162MK2
STK-4182MK2



BN1A3Q
2SA1175-HFE
2SC2785-HFE

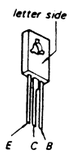
DTA124ES
DTC124ES

2SA988-F

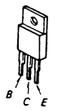
2SB734-34

2SC3622A-L

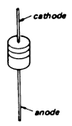
2SD809



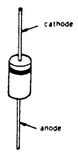
2SD1585-L



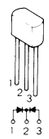
HZS6C3L
UZ-4.3BSB
UZ-6.2BSC
UZ-15BSB
UZ-16BSB
UZ-22BSC



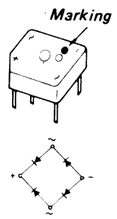
HZ4ALL
US1060M



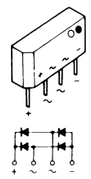
MC921



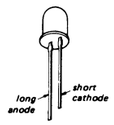
RB402



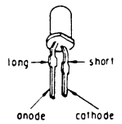
S1VB40



SEL2510C



SEL2210S-C
SEL2810A-C



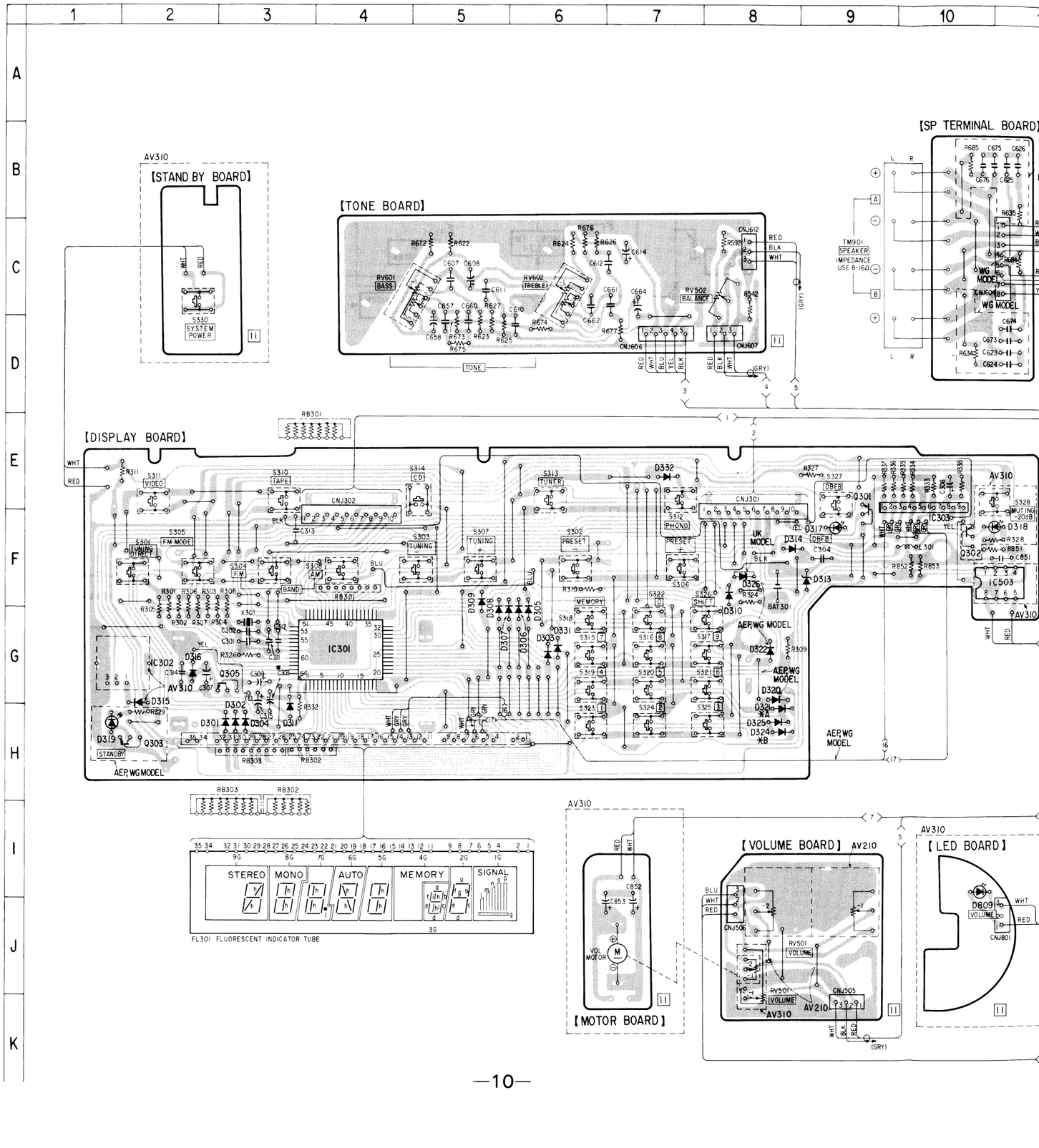
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D301	H-3	IC502	D-19
D302	H-3	IC503	F-11
D303	G-6	IC504	H-18
D304	H-3	IC601	H-23
D305	G-6		
D306	G-6	Q1	D-14
D307	G-5	Q2	D-14
D308	G-5	Q3	E-14
D309	F-5	Q4	E-14
D310	F-8	Q21	G-14
D311	H-3	Q22	G-13
D313	F-9	Q23	E-14
D314	F-8	Q24	E-14
D315	H-2	Q81	E-14
D316	G-2	Q82	E-14
D317	F-9	Q83	C-15
D318	F-11	Q84	B-15
D319	H-1	Q301	F-9
D320	H-8	Q302	F-10
D321	H-8	Q303	H-1
D322	G-8	Q305	G-3
D324	H-8	Q451	B-22
D325	H-8	Q452	B-22
D331	G-6	Q501	G-18
D332	E-7	Q502	F-18
D451	B-22	Q503	F-18
D501	H-18	Q504	F-17
D502	H-18	Q505	J-18
D503	F-17	Q551	G-18
D504	F-17	Q552	G-18
D601	E-22	Q553	E-18
D602	J-21	Q601	E-21
D603	I-21	Q602	F-21
D651	G-21	Q603	G-21
D801	D-21	Q604	G-21
D805	J-22	Q605	J-21
D806	I-20	Q651	G-22
D807	G-19	Q801	I-20
D808	G-19	Q802	G-19
D809	I-10	Q803	B-21
D810	B-21	Q804	C-21
D811	B-21	Q805	B-21
D812	C-21	Q806	C-21
D813	D-22	Q807	C-21
D903	B-24	Q808	J-19
D912	B-24	Q911	B-25
D913	B-25		
IC21	F-13		
IC81	D-15		
IC301	G-4		
IC302	G-2		
IC303	F-10		
IC501	C-17		

Note:

- ○—— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ⊡→ indicates side identified with part number.
- * A, * B : See Page 5 for Note on Ceramic Filter (CF1, 2 and 3) Replacement.
- WG: West Germany

3-3. PRINTED WIRING BOARDS



9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

【SP TERMINAL BOARD】

【TUNER BOARD】

【MAIN BOARD】

【LED BOARD】

【SP SWITCH BOARD】

【HP BOARD】

【POW IC BOARD】

【OUTLET BOARD】

TCB007-2J/2K

【TUNER BOARD】

【MAIN BOARD】

【DISPLAY BOARD】

FL301 FLUORESCENT INDICATOR TUBE

IC303 SIGNAL INDICATOR DRIVE

IC303 LB1493

IC301 SYSTEM CONTROL

IC301 μPD75206

IC503 MOTOR DRIVE

IC503 LB1639

IC21 FM/AM MPX

IC21 LA1851N

IC504 μPC4570 TONE AMP

IC504 (1/2)

IC601 STK4162MK2 (AV210) STK4182MK2 (AV310) POWER AMP

IC601 (1/2)

【MOTOR BOARD】

【VOLUME BOARD】

【TONE BOARD (1/2)】

【POW IC BOARD】

【LED BOARD】

【OUTLET BOARD】

【POWER BOARD】 (AV210)

【POWER BOARD】 (AV310)

【TONE BOARD (1/2)】

Q23,24 MONO SW

Q83 2SK246 LPF

Q84 2SC3112 LPF

Q501 2SC2785 DBFB

Q502 BA1F4M MUTING AV310

Q503 MUTING

Q504 2SA1175 MUTING SWITCH

Q505 BA1F4M DBFB SWITCH

Q551 2SC2785 DBFB

Q552 BA1F4M MUTING

Q601 2SA988 CURRENT DET

Q602 2SC2785 SWITCH

Q603,604 SWITCH

Q605 2SC2785 RELAY DRIVE

Q651 2SA988 CURRENT DET

Q801 2SD1585 +16V REG

Q802 2SB734 -30V REG

Q803 +6V REG

Q804-807 SWITCH

Q805 2SC2785

Q808 LED DRIVE

Q911 2SC2785 RELAY DRIVE

Q305 RESET

D501 US1060M

D502 US1060M

D503 US1060M

D504 US1060M

D602 US1060M

D603 US1060M

D651 US1060M

D801 RECT

D903 RECT

T901 POWER TRANSFORMER

T902 POWER TRANSFORMER

CN901 AC OUTLET

SWITCHED 100W MAX

AC IN 220V 50/60Hz

AC IN 240V 50/60Hz

UK MODEL

AEP,WG MODEL

WG MODEL

AV210

AV310

SIRCS

MUT

PROTECT

P. RLY

SP RLY

SP. RLY/ P. RLY

T MUTE

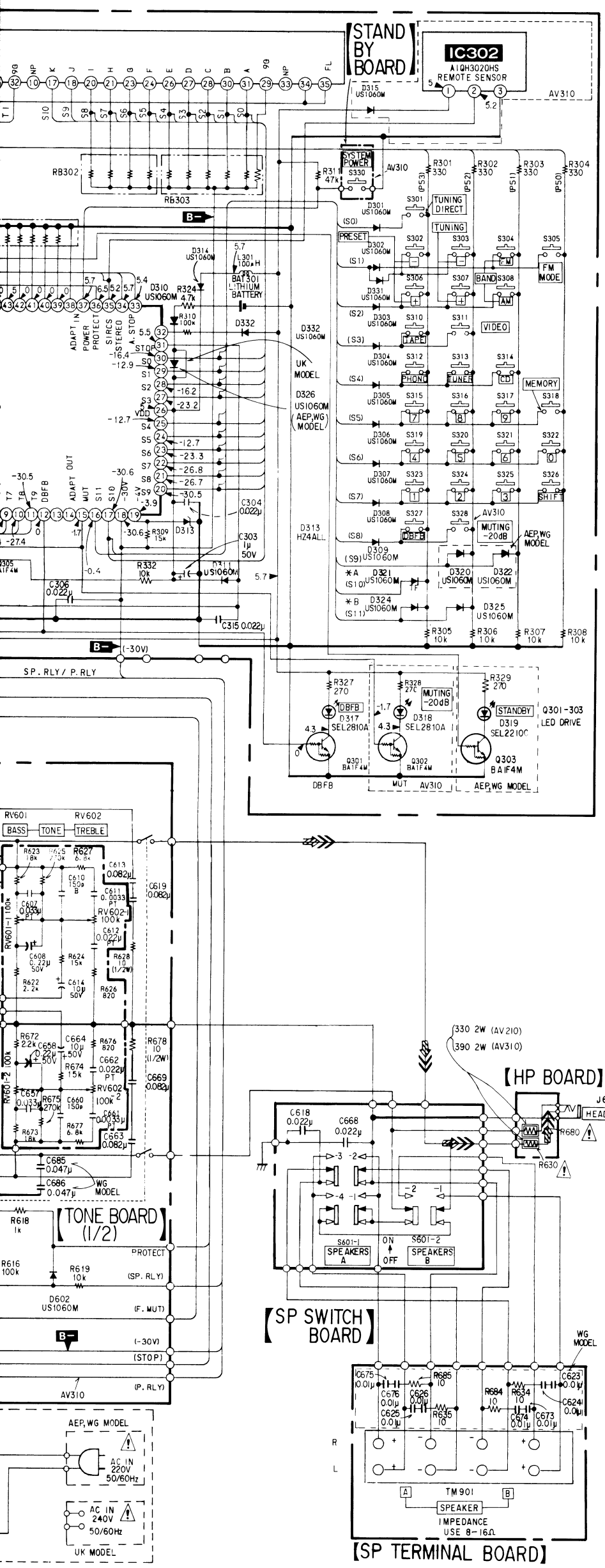
STEREO

A.STOP

FM STEREO SEPARATION

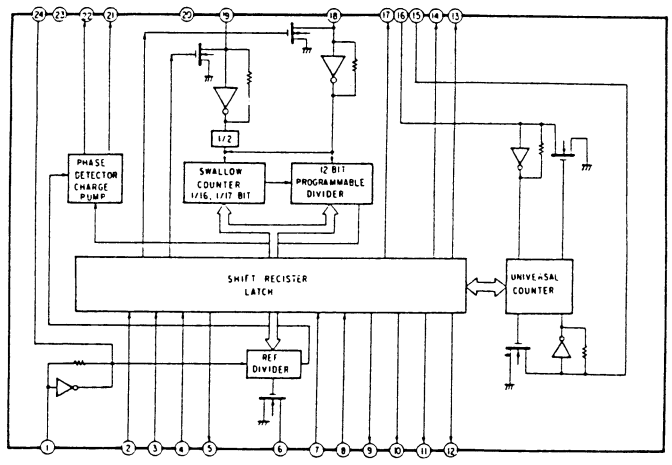
(AEP,UK) MODEL 2.2k 4.7k(WG MODEL)

NOT REPLACEABLE: BUILT IN TRANSFORMER

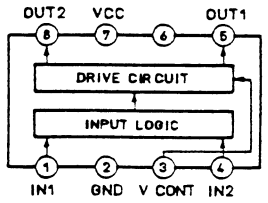


• IC Block Diagrams

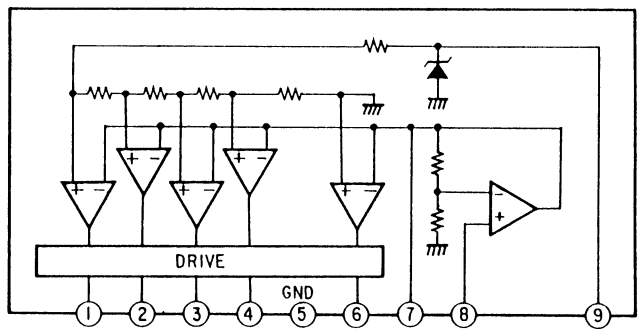
IC81 LC7218



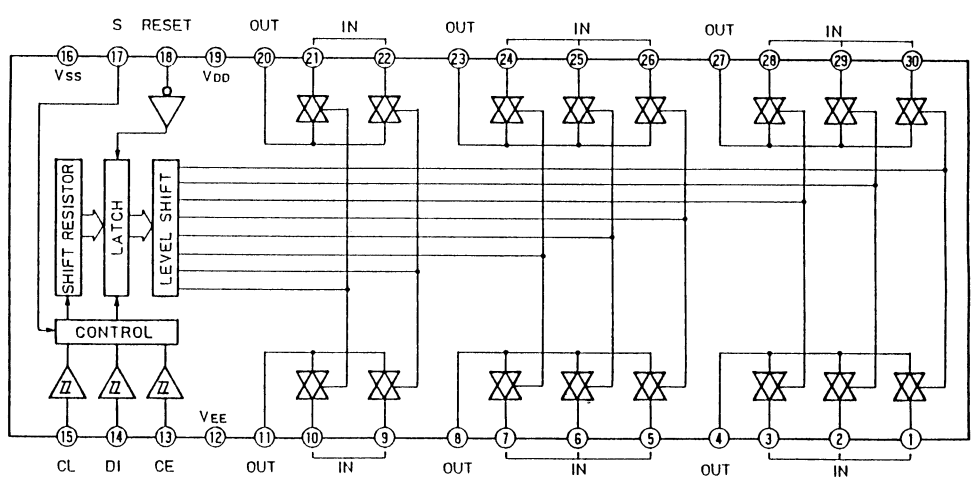
IC503 LB1639



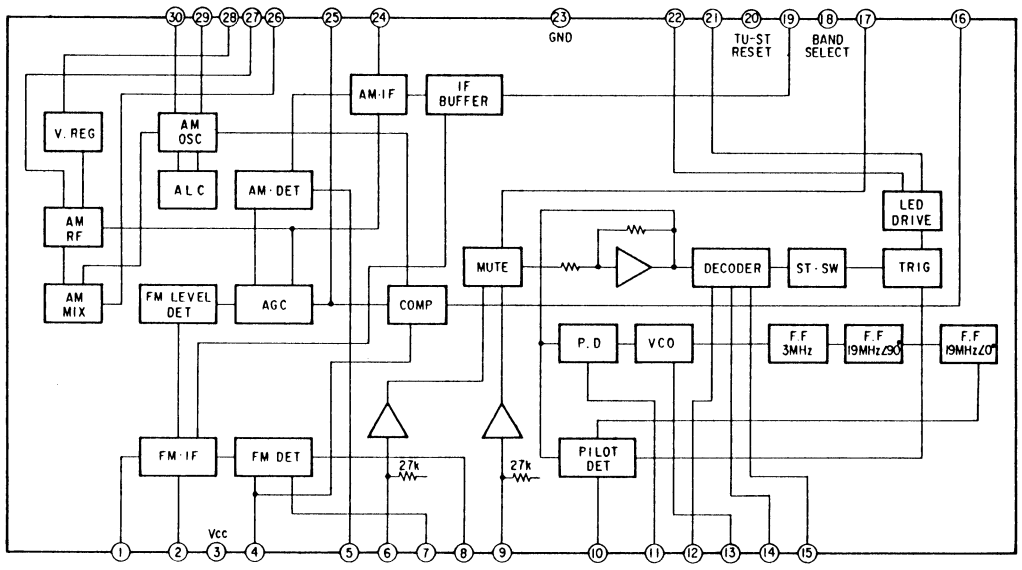
IC303 LB1493



IC502 LC7822



IC21 LA1851N



Note:

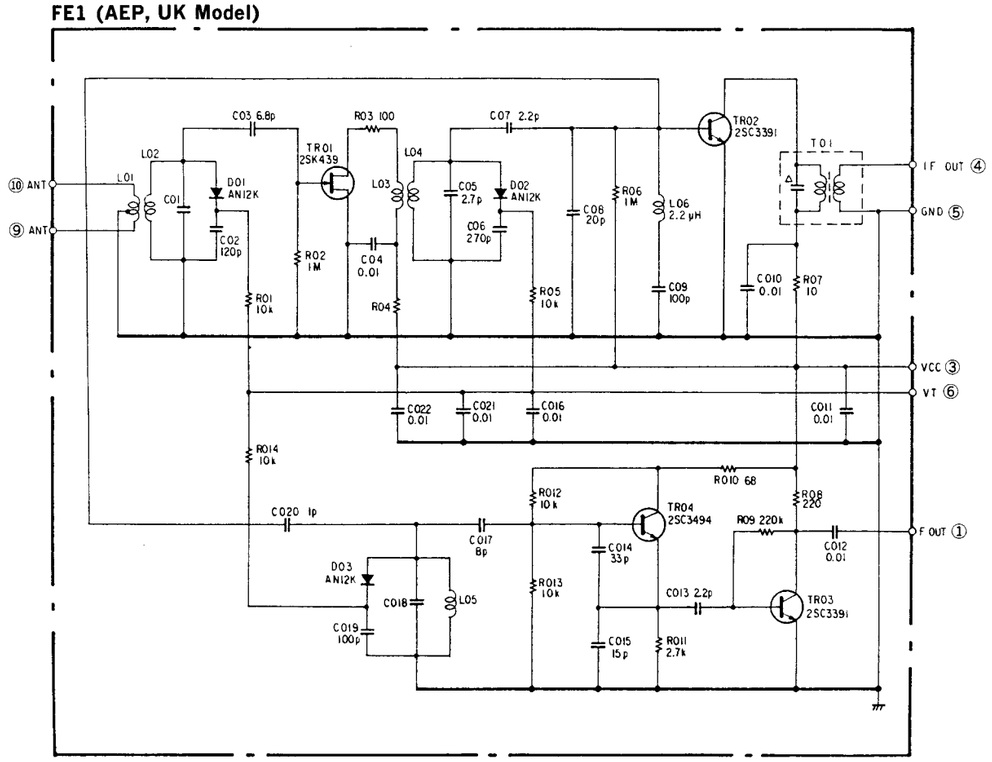
- * A, * B : See Page 5 for Note on Ceramic Filter (CF1, 2 and 3) Replacement.
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

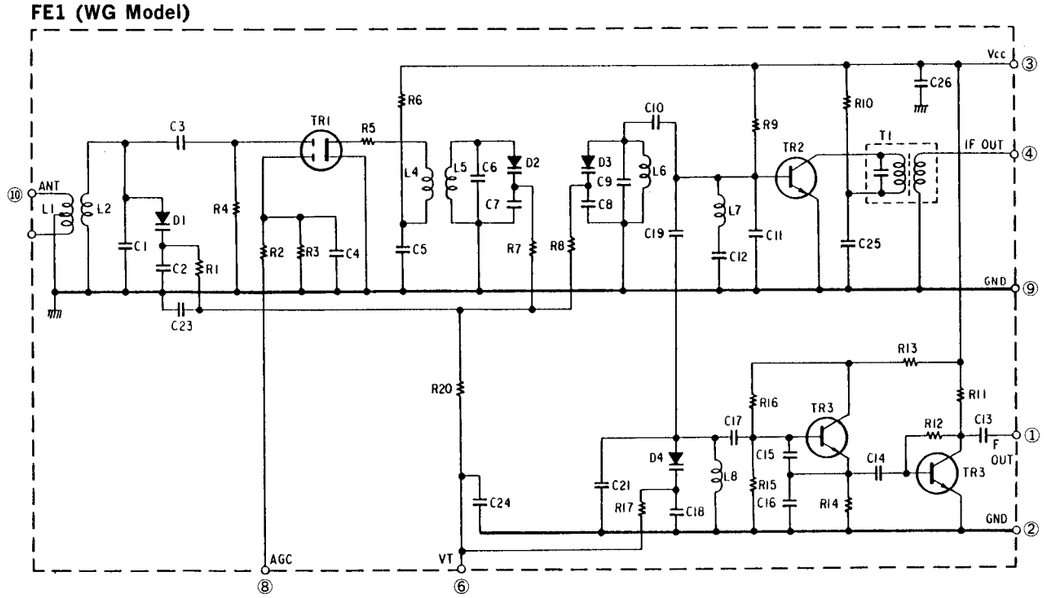
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : PHONO
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⋙ : PHONO
- WG: West Germany

• FRONT END

FE1 (AEP, UK Model)



FE1 (WG Model)



SECTION 4
EXPLODED VIEWS

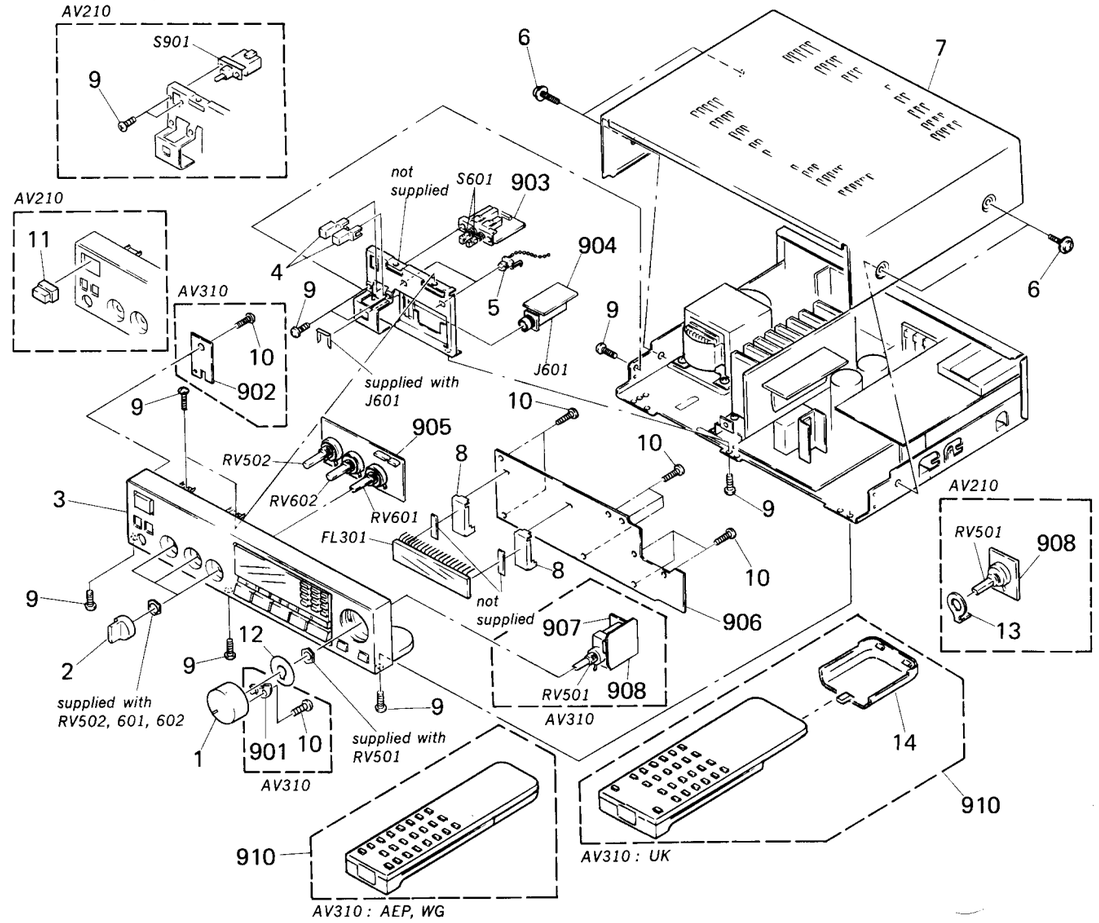
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

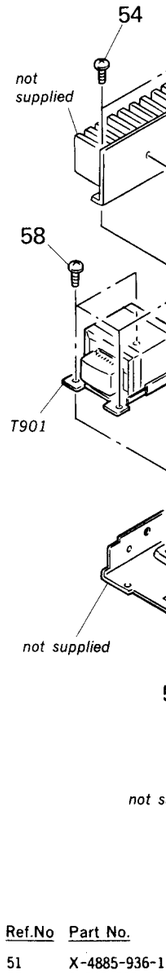
- WG: West Germany

4-1. CABINET, FRONT PANEL SECTION



Ref.No	Part No.	Description	Remark
1	4-925-121-01	(AV310)....KNOB (V2)	
1	4-925-121-71	(AV210)....KNOB (V2)	
2	4-916-745-01	KNOB (DIA.21)	
3	X-4906-824-1	(AV310)....PANEL ASSY, FRONT	
3	X-4906-826-1	(AV210)....PANEL ASSY, FRONT	
4	4-906-872-01	KNOB, SQUARE	
5	3-701-748-00	CLAMP	
6	3-704-366-01	SCREW (CASE) (M3X8)	
7	4-925-066-01	CASE	
8	*4-924-989-01	HOLDER (FL TUBE)	
9	7-682-548-04	SCREW +BVTT 3X8 (S)	
10	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
11	4-917-460-01	(AV210)....KNOB, POWER	
12	*4-931-603-01	SPACER	
13	*4-925-044-01	(AV210)....BRACKET (VOL GROUND)	
14	4-928-079-01	(UK)....COVER, BATTERY	
901	*1-630-369-11	(AV310)....PC BOARD, LED	
902	*1-630-368-11	(AV310)....PC BOARD, STAND BY	
903	*1-630-373-11	PC BOARD, SP SWITCH	
904	*1-630-372-11	PC BOARD, HP	
905	*1-630-370-11	PC BOARD, TONE	
906	*A-4333-667-A	(AV310)....MOUNTED PCB, DISPLAY	
906	*A-4333-696-A	(AV210)....MOUNTED PCB, DISPLAY	
907	*1-630-365-11	(AV310)....PC BOARD, MOTOR	
908	*1-630-364-11	PC BOARD, VOLUME	
910	1-465-096-11	(AV310 : AEP, WG)....REMOTE, COMMANDER (RM-S70)	
910	1-465-097-11	(UK)....REMOTE COMMANDER (RM-U90)	
FL301	1-519-509-11	INDICATOR TUBE, FLUORESCENT	
J601	1-507-863-51	JACK, LARGE TYPE (HEADPHONES)	
RV501	1-238-074-11	(AV210)....RES, VAR, CARBON 100K/100K (VOLUME)	
RV501	1-238-556-11	(AV310)....RES, VAR, CARBON 250K/250K (VOLUME) (INCLUDING VOL MOTOR)	
RV502	1-238-557-11	RES, VAR, CARBON 250K (BALANCE)	
RV601	1-238-558-11	RES, VAR, CARBON 100K/100K (TONE BASS)	
RV602	1-238-558-11	RES, VAR, CARBON 100K/100K (TONE TREBLE)	
S601	1-571-485-11	SWITCH, PUSH (2 KEY) (SPEAKERS A/B)	
S901	⚠1-554-685-11	(AV210)....SWITCH, PUSH (AC POWER) (1 KEY) (POWER)	

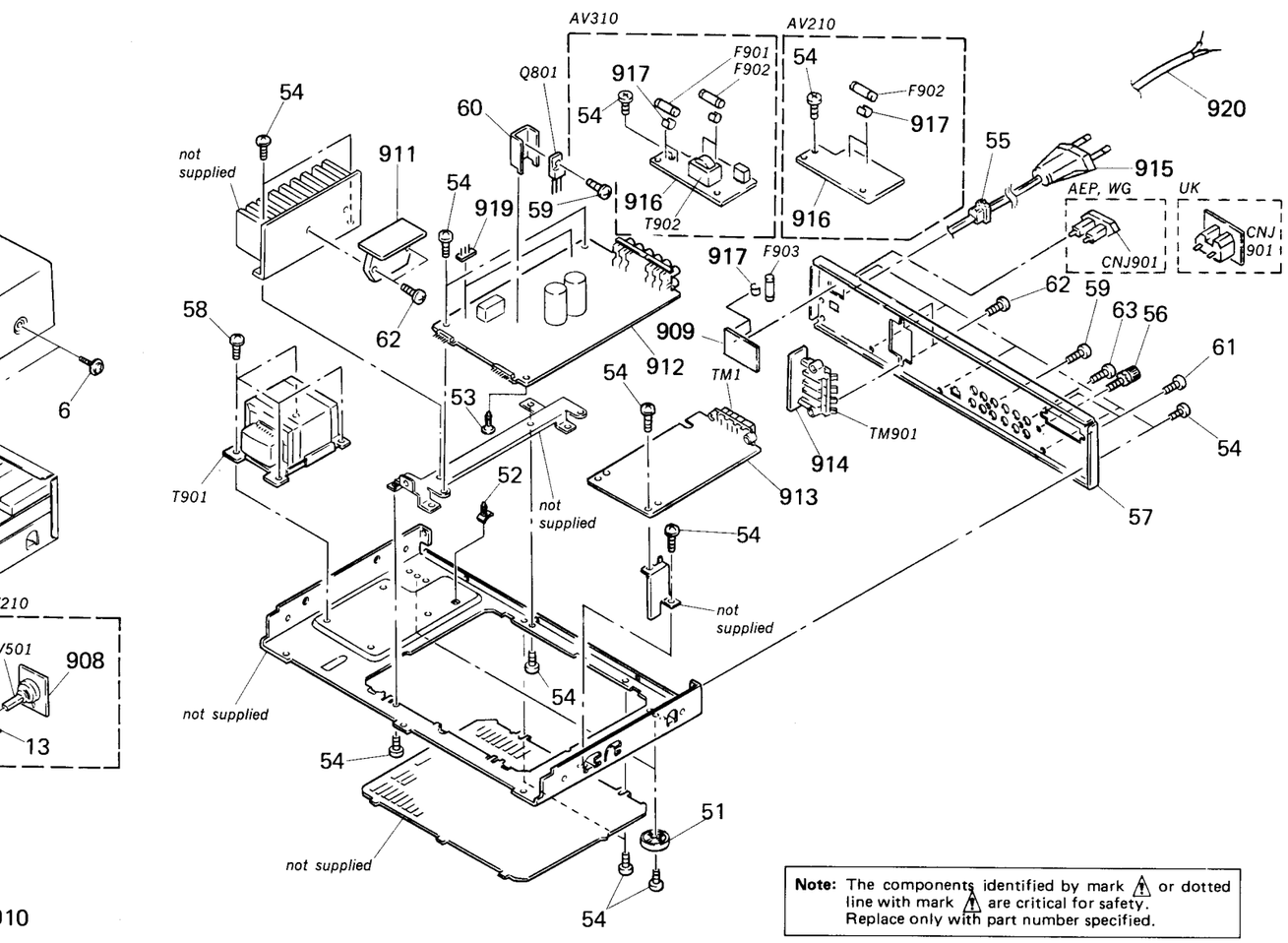
4-2. CHASS



Ref.No	Part No.
51	X-4885-936-1
52	*3-346-265-11
53	*3-669-610-00
54	7-682-548-04
55	*3-703-244-00
56	3-706-165-00
57	*4-925-077-31
57	*4-925-077-41
57	*4-925-077-61
57	*4-925-077-71
57	*4-925-077-81
57	*4-925-077-81
58	7-682-560-04
59	7-685-647-79
60	*4-880-403-11
61	7-685-647-79
62	7-685-650-79
63	7-621-849-00
909	*1-631-364-11
911	*1-630-371-11
912	*A-4333-662-A
912	*A-4333-699-A

dentified by
ne with mark
fety.
part number

4-2. CHASSIS SECTION



Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description	Remark
51	X-4885-936-1	FOOT ASSY	
52	*3-346-265-11	HOLDER, PC BOARD	
53	*3-669-610-00	SPACER	
54	7-682-548-04	SCREW +BVTT 3X8 (S)	
55	*3-703-244-00	BUSHING (2104), CORD	
56	3-706-165-00	SCREW	
57	*4-925-077-31	(AV210 : AEP)....PANEL, BACK	
57	*4-925-077-41	(AV210 : WG)....PANEL, BACK	
57	*4-925-077-61	(AV310 : AEP)....PANEL, BACK	
57	*4-925-077-71	(AV310 : WG)....PANEL, BACK	
57	*4-925-077-81	(AV310 : UK)....PANEL, BACK	
57	*4-925-077-81	(UK)....PANEL, BACK	
58	7-682-560-04	SCREW +BVTT 4X6 (S)	
59	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
60	*4-880-403-11	HEAT SINK	
61	7-685-647-79	SCREW +BTP 3X10 TYPE2 N-S	
62	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	
63	7-621-849-00	SCREW, TAPPING	
909	*1-631-364-11	(AV310)....PC BOARD,OUTLET	
911	*1-630-371-11	PC BOARD, POW IC	
912	*A-4333-662-A	(AV310 : AEP, UK)....MOUNTED PCB, MAIN	
912	*A-4333-699-A	(AV210 : WG)....MOUNTED PCB, MAIN	

Ref.No	Part No.	Description	Remark
912	*A-4333-705-A	(AV310 : WG)....MOUNTED PCB, MAIN	
912	*A-4333-716-A	(AV210 : AEP)....MOUNTED PCB, MAIN	
913	*A-4303-167-A	(AEP, UK)....MOUNTED PCB, TUNER (TCB007-2JK)	
913	*A-4303-168-A	(WG)....MOUNTED PCB, TUNER (TCB007-2KK)	
914	*1-630-367-11	PC BOARD, SP TERMINAL	
915	⚠1-555-750-00	(AEP, WG)....CORD POWER	
916	*1-631-363-11	PC BOARD, POWER	
917	1-533-183-11	HOLDER, FUSE	
919	*1-535-116-00	TERMINAL	
920	⚠1-556-035-00	(UK)....CORD, POWER	
CNJ901	⚠1-526-751-00	(AV310 : UK)....OUTLET, AC	
CNJ901	⚠1-526-794-11	(AV310 : AEP, WG)....OUTLET, AC	
F901	⚠1-532-973-11	(AV310)....FUSE (T1.6A)	
F902	⚠1-532-967-11	(AV210)....FUSE (1.25A)	
F902	⚠1-532-973-11	(AV310)....FUSE (T1.6A)	
F903	⚠1-532-973-11	(AV310)....FUSE (T1.6A)	
T901	⚠1-449-706-11	(AV310 : AEP, WG)....TRANSFORMER, POWER	
T901	⚠1-449-758-11	(UK)....TRANSFORMER, POWER	
T901	⚠1-449-761-11	(AV210)....TRANSFORMER, POWER	
T902	⚠1-448-523-11	(AV310)....TRANSFORMER, POWER	
TM1	*1-537-138-31	TERMINAL BOARD (ANT) (ANTENNA)	
TM901	1-536-706-00	TERMINAL BOARD (SP) (SPEAKER)	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- WG: West Germany

Ref.No	Part No.	Description
901	*1-630-369-11	(AV310)....PC BOARD, LED
902	*1-630-368-11	(AV310)....PC BOARD, STAND BY
903	*1-630-373-11	PC BOARD, SP SWITCH
904	*1-630-372-11	PC BOARD, HP
905	*1-630-370-11	PC BOARD, TONE
906	*A-4333-667-A	(AV310)....MOUNTED PCB, DISPLAY
906	*A-4333-696-A	(AV210)....MOUNTED PCB, DISPLAY
907	*1-630-365-11	(AV310)....PC BOARD, MOTOR
908	*1-630-364-11	PC BOARD, VOLUME
909	*1-631-364-11	(AV310)....PC BOARD,OUTLET
910	1-465-096-11	(AV310 : AEP, WG)....REMOTE, COMMANDER (RM-S70)
910	1-465-097-11	(UK)....REMOTE COMMANDER (RM-U90)
911	*1-630-371-11	PC BOARD, POW IC
912	*A-4333-662-A	(AV310 : AEP, UK)....MOUNTED PCB, MAIN
912	*A-4333-699-A	(AV210 : WG)....MOUNTED PCB, MAIN
912	*A-4333-716-A	(AV210 : AEP)....MOUNTED PCB, MAIN
912	*A-4333-705-A	(AV310 : WG)....MOUNTED PCB, MAIN
913	*A-4303-167-A	(AEP, UK)....MOUNTED PCB, TUNER (TCB007-2JK)
913	*A-4303-168-A	(WG)....MOUNTED PCB, TUNER (TCB007-2KK)
914	*1-630-367-11	PC BOARD, SP TERMINAL
915	⚠1-555-750-00	(AEP, WG)....CORD POWER
916	*1-631-363-11	PC BOARD, POWER
917	1-533-183-11	HOLDER, FUSE
919	*1-535-116-00	TERMINAL
920	⚠1-556-035-00	(UK)....CORD, POWER
BAT301	1-528-120-00	BATTERY, LITHIUM (CR-2025)
BP901	1-535-139-00	BASE POST 19MM (10MM PITCH) 2P

CAPACITOR

Ref.No	Part No.	Description			
C1	1-162-294-31	CERAMIC CHIP	0.001MF	20%	25V
C2	1-124-477-11	ELECT	47MF	20%	16V
C3	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C4	1-162-294-31	CERAMIC CHIP	0.001MF	20%	25V
C5	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C6	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C7	1-163-059-00	(WG).... CERAMIC MELF	0.01MF	20%	16V
C8	1-163-059-00	(WG).... CERAMIC MELF	0.01MF	20%	16V
C9	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C21	1-161-021-11	CERAMIC	0.047MF	10%	25V
C22	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C23	1-124-477-11	ELECT	47MF	20%	16V
C24	1-123-382-00	ELECT	3.3MF	20%	50V
C25	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C26	1-163-019-00	CERAMIC CHIP	0.0068MF	20%	12V
C27	1-162-516-11	(AEP, UK).... CERAMIC CHIP	100PF	10%	50V
C27	1-163-007-11	(WG).... CERAMIC CHIP	680PF	20%	50V
C28	1-124-499-11	ELECT	1MF	20%	50V
C29	1-162-516-11	(WG).... CERAMIC CHIP	100PF	10%	50V
C30	1-124-499-11	ELECT	1MF	20%	50V
C31	1-124-902-00	ELECT	0.47MF	20%	50V
C32	1-124-463-00	ELECT	0.1MF	20%	50V
C33	1-130-481-00	MYLAR	0.0068MF	5%	50V
C34	1-123-382-00	ELECT	3.3MF	20%	50V
C35	1-130-481-00	MYLAR	0.0068MF	5%	50V
C36	1-123-382-00	ELECT	3.3MF	20%	50V
C37	1-123-875-11	ELECT	10MF	20%	50V
C39	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C40	1-124-463-00	ELECT	0.1MF	20%	50V
C41	1-124-927-11	ELECT	4.7MF	20%	50V
C42	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C43	1-126-176-11	ELECT	220MF	20%	10V
C44	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C45	1-123-382-00	ELECT	3.3MF	20%	50V
C46	1-161-375-00	CERAMIC CHIP	0.0022MF	20%	25V
C47	1-162-294-31	(WG).... CERAMIC CHIP	0.001MF	20%	25V
C48	1-123-382-00	ELECT	3.3MF	20%	50V
C49	1-161-375-00	CERAMIC CHIP	0.0022MF	20%	25V
C50	1-162-294-31	(WG).... CERAMIC CHIP	0.001MF	20%	25V
C51	1-124-477-11	ELECT	47MF	20%	16V
C61	1-163-063-00	CERAMIC MELF	0.022MF		25V
C62	1-163-063-00	CERAMIC MELF	0.022MF		25V
C63	1-163-063-00	CERAMIC MELF	0.022MF		25V
C64	1-163-063-00	CERAMIC MELF	0.022MF		25V
C81	1-102-961-00	CERAMIC	27PF	5%	50V
C82	1-102-961-00	CERAMIC	27PF	5%	50V
C83	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C84	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C85	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C86	1-124-477-11	ELECT	47MF	20%	16V
C87	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C88	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C101	1-124-925-11	ELECT	2.2MF	20%	50V
C102	1-124-463-00	ELECT	0.1MF	20%	50V
C103	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C104	1-163-059-00	CERAMIC MELF	0.01MF	20%	16V
C105	1-124-477-11	ELECT	47MF	20%	16V
C301	1-162-211-31	CERAMIC	33PF	5%	50V
C302	1-162-211-31	CERAMIC	33PF	5%	50V
C303	1-124-499-11	ELECT	1MF	20%	50V
C304	1-161-055-00	CERAMIC	0.022MF	10%	25V
C306	1-161-055-00	CERAMIC	0.022MF	10%	25V
C307	1-124-499-11	ELECT	1MF	20%	50V
C308	1-124-499-11	(AEP, WG).... ELECT	1MF	20%	50V
C309	1-124-465-00	ELECT	0.47MF	20%	50V
C311	1-161-055-00	CERAMIC	0.022MF	10%	25V
C312	1-161-055-00	CERAMIC	0.022MF	10%	25V
C313	1-161-055-00	CERAMIC	0.022MF	10%	25V
C314	1-161-055-00	CERAMIC	0.022MF	10%	25V
C315	1-161-055-00	CERAMIC	0.022MF	10%	25V
C501	1-102-106-00	CERAMIC	100PF	10%	50V
C502	1-123-382-00	ELECT	3.3MF	20%	50V

Ref.No	Part No.	Description			
C503	1-102-106-00	(AEP, UK).... CERAMIC	100PF	10%	50V
C503	1-102-112-00	(WG)....CERAMIC	330PF	10%	50V
C504	1-124-963-11	ELECT	33MF	20%	16V
C505	1-130-480-00	MYLAR	0.0056MF	5%	50V
C506	1-130-473-00	MYLAR	0.0015MF	5%	50V
C507	1-123-382-00	ELECT	3.3MF	20%	50V
C508	1-123-382-00	ELECT	3.3MF	20%	50V
C509	1-123-382-00	ELECT	3.3MF	20%	50V
C510	1-130-495-00	MYLAR	0.1MF	5%	50V
C511	1-130-495-00	MYLAR	0.1MF	5%	50V
C512	1-124-250-00	ELECT	0.15MF	20%	50V
C513	1-102-112-00	CERAMIC	330PF	10%	50V
C514	1-123-875-11	ELECT	10MF	20%	50V
C515	1-162-211-31	CERAMIC	33PF	5%	50V
C516	1-123-875-11	ELECT	10MF	20%	50V
C518	1-124-927-11	(AV310)....ELECT	4.7MF	20%	50V
C519	1-162-294-31	CERAMIC	0.001MF	10%	50V
C520	1-124-927-11	ELECT	4.7MF	20%	50V
C521	1-123-875-11	ELECT	10MF	20%	50V
C522	1-123-875-11	ELECT	10MF	20%	50V
C523	1-161-055-00	CERAMIC	0.022MF	10%	50V
C551	1-102-106-00	CERAMIC	100PF	10%	50V
C552	1-123-382-00	ELECT	3.3MF	20%	50V
C553	1-102-106-00	(AEP, UK).... CERAMIC	100PF	10%	50V
C553	1-102-112-00	(WG)....CERAMIC	330PF	10%	50V
C554	1-124-963-11	ELECT	33MF	20%	16V
C555	1-130-480-00	MYLAR	0.0056MF	5%	50V
C556	1-130-473-00	MYLAR	0.0015MF	5%	50V
C557	1-123-382-00	ELECT	3.3MF	20%	50V
C558	1-123-382-00	ELECT	3.3MF	20%	50V
C559	1-123-382-00	ELECT	3.3MF	20%	50V
C560	1-130-495-00	MYLAR	0.1MF	5%	50V
C561	1-130-495-00	MYLAR	0.1MF	5%	50V
C562	1-124-250-00	ELECT	0.15MF	20%	50V
C563	1-102-112-00	CERAMIC	330PF	10%	50V
C564	1-123-875-11	ELECT	10MF	20%	50V
C565	1-162-211-31	CERAMIC	33PF	5%	50V
C566	1-123-875-11	ELECT	10MF	20%	50V
C568	1-123-875-11	ELECT	10MF	20%	50V
C571	1-123-875-11	ELECT	10MF	20%	50V
C573	1-161-055-00	CERAMIC	0.022MF	10%	50V
C601	1-124-927-11	ELECT	4.7MF	20%	50V
C602	1-102-112-00	CERAMIC	330PF	10%	50V
C603	1-162-286-31	CERAMIC	220PF	10%	50V
C604	1-124-122-11	ELECT	100MF	20%	50V
C605	1-126-233-11	ELECT	22MF	20%	25V
C606	1-126-101-11	ELECT	100MF	20%	16V
C607	1-130-489-00	MYLAR	0.033MF	5%	50V
C608	1-124-464-11	ELECT	0.22MF	20%	50V
C610	1-102-108-00	CERAMIC	150PF	10%	50V
C611	1-130-477-00	MYLAR	0.0033MF	5%	50V
C612	1-130-487-00	MYLAR	0.022MF	5%	50V
C613	1-136-164-00	MYLAR	0.082MF	10%	50V
C614	1-124-261-00	ELECT	10MF	20%	50V
C615	1-130-495-00	MYLAR	0.1MF	5%	50V
C616	1-123-875-11	ELECT	10MF	20%	50V
C617	1-124-472-11	ELECT	470MF	20%	6.3V
C618	1-161-055-00	CERAMIC	0.022MF	10%	25V
C619	1-136-164-00	MYLAR	0.082MF	10%	50V
C620	1-123-875-11	ELECT	10MF	20%	50V
C623	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C624	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C625	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C626	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V

Ref.No	Part No.	Description			
C635	1-136-161-00	(WG)....ELECT	0.047MF	10%	50V
C636A	1-136-161-00	(WG)....ELECT	0.047MF	10%	50V
C636B	1-102-106-00	(AV210 : WG).... CERAMIC	100PF	10%	50V
C637	1-130-487-00	(WG)....MYLER	0.022MF	5%	50V
C638	1-102-110-00	(WG).... CERAMIC	220PF	10%	50V
C651	1-124-927-11	ELECT	4.7MF	20%	50V
C652	1-102-112-00	CERAMIC	330PF	10%	50V
C653	1-162-286-31	CERAMIC	220PF	10%	50V
C654	1-124-122-11	ELECT	100MF	20%	50V
C655	1-126-233-11	ELECT	22MF	20%	25V
C656	1-126-101-11	ELECT	100MF	20%	16V
C657	1-130-489-00	MAYLAR	0.033MF	5%	50V
C658	1-124-464-11	ELECT	0.22MF	20%	50V
C660	1-102-108-00	CERAMIC	150PF	10%	50V
C661	1-130-477-00	MAYLAR	0.0033MF	5%	50V
C662	1-130-487-00	MAYLAR	0.022MF	5%	50V
C663	1-136-164-00	MAYLAR	0.082MF	10%	50V
C664	1-124-261-00	ELECT	10MF	20%	50V
C665	1-130-495-00	MAYLAR	0.1MF	5%	50V
C668	1-161-055-00	CERAMIC	0.022MF	10%	25V
C669	1-136-164-00	MAYLAR	0.082MF	10%	50V
C673	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C674	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C675	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C676	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C685	1-136-161-00	(WG)....ELECT	0.047MF	10%	50V
C686	1-136-161-00	(WG)....ELECT	0.047MF	10%	50V
C801	1-126-307-11	ELECT	6800MF	20%	50V
C802	1-126-307-11	ELECT	6800MF	20%	50V
C803	1-126-101-11	ELECT	100MF	20%	16V
C804	1-124-910-11	ELECT	47MF	20%	50V
C805	1-124-963-11	ELECT	33MF	20%	16V
C806	1-123-875-11	ELECT	10MF	20%	50V
C807	1-123-875-11	ELECT	10MF	20%	50V
C808	1-124-927-11	ELECT	4.7MF	20%	50V
C810	1-124-499-11	ELECT	1MF	20%	50V
C811	1-124-477-11	ELECT	47MF	20%	16V
C812	1-123-875-11	ELECT	10MF	20%	50V
C813	1-124-464-11	ELECT	0.22MF	20%	50V
C816	1-130-777-51	FILM	0.1MF	5%	100V
C817	1-130-777-51	FILM	0.1MF	5%	100V
C818	1-161-055-00	CERAMIC	0.022MF	10%	50V
C819	1-161-055-00	CERAMIC	0.022MF	10%	50V
C851	1-123-875-11	ELECT	10MF	20%	50V
C852	1-124-464-11	(AV310)....ELECT	0.22MF	20%	50V
C853	1-124-464-11	(AV310)....ELECT	0.22MF	20%	50V
C901 ⚠	1-161-744-00	CERAMIC	0.01MF		400V
C912	1-124-557-11	(AV310)....ELECT	1000MF	20%	25V
CC2	1-249-366-11	CARBON MELF 0		5%	1/5W
CC3	1-249-366-11	CARBON MELF 0		5%	1/5W
CC5	1-249-366-11	CARBON MELF 0		5%	1/5W
CF1	1-567-389-11	FILTER, CERAMIC			
CF2	1-567-389-11	FILTER, CERAMIC			
CF3	1-567-389-11	(WG)....FILTER, CERAMIC			
CF21	1-577-075-11	OSCILLATOR, CERAMIC (19KHz)			
CFT21	1-404-853-11	TRANSFORMER, IF (CERAMIC FILTER)			
CNJ1	*1-568-276-11	SOCKET, CONNECTOR 10P			
CNJ2	1-568-269-11	SOCKET, CONNECTOR 3P			
CNJ4	1-568-307-11	SOCKET, CONNECTOR 3P			
CNJ501	*1-562-327-00	SOCKET, CONNECTOR 3P			
CNJ502	*1-564-777-11	PLUG, CONNECTOR (2.5MM) 2P			
CNJ503	1-568-285-11	SOCKET, CONNECTOR 10P			
CNJ504	1-568-278-11	SOCKET, CONNECTOR 3P			

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description
Q552	8-729-900-36	(AV310)....TRANSISTOR DTC124ES
Q553	8-729-107-98	TRANSISTOR 2SC3622A-L
Q601	8-729-108-14	TRANSISTOR 2SA988-F
Q602	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q603	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q604	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q605	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q651	8-729-108-14	TRANSISTOR 2SA988-F
Q801	8-729-107-25	TRANSISTOR 2SD1585-L
Q802	8-729-140-99	TRANSISTOR 2SB734-34
Q803	8-729-180-92	TRANSISTOR 2SD809
Q804	8-729-115-22	TRANSISTOR BN1A3Q
Q805	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q806	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q807	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q808	8-729-119-78	(AV310)....TRANSISTOR 2SC2785-HFE
Q911	8-729-119-78	(AV310)....TRANSISTOR 2SC2785-HFE

RESISTOR

Ref.No	Part No.	Description				
R1	⚠ 1-249-401-11	(AEP, UK)....				
		CARBON (SMALL)	47	5%	1/4W	F
R1	⚠ 1-249-397-11	(WG)....				
		CARBON (SMALL)	22	5%	1/4W	F
R3	1-249-329-11	CARBON MELF	330	5%	1/8W	
R4	1-249-329-11	CARBON MELF	330	5%	1/8W	
R5	1-249-329-11	CARBON MELF	330	5%	1/8W	
R6	1-249-350-11	CARBON MELF	18K	5%	1/8W	
R7	1-249-329-11	CARBON MELF	330	5%	1/8W	
R8	1-249-332-11	CARBON MELF	560	5%	1/8W	
R9	1-249-352-11	CARBON MELF	27K	5%	1/8W	
R10	1-249-329-11	(WG)....				
		CARBON MELF	330	5%	1/8W	
R11	1-249-350-11	(WG)....				
		CARBON MELF	18K	5%	1/8W	
R12	1-249-329-11	(WG)....				
		CARBON MELF	330	5%	1/8W	
R13	1-249-334-11	(WG)....				
		CARBON MELF	820	5%	1/8W	
R14	1-249-352-11	(WG)....				
		CARBON MELF	27K	5%	1/8W	
R15	1-249-347-11	(WG)....				
		CARBON MELF	10K	5%	1/8W	
R16	1-249-343-11	(WG)....				
		CARBON MELF	4.7K	5%	1/8W	
R21	⚠ 1-249-404-00	CARBON (SMALL)	82	5%	1/4W	F
R22	1-249-433-11	CARBON (SMALL)	22K	5%	1/4W	
R23	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R24	1-249-353-11	CARBON MELF	33K	5%	1/8W	
R25	1-249-346-11	CARBON	8.2K	5%	1/8W	
R26	1-249-340-11	(WG)....				
		CARBON MELF	2.7K	5%	1/8W	
R27	1-249-432-11	CARBON (SMALL)	18K	5%	1/4W	
R28	1-249-423-11	CARBON (SMALL)	3.3K	5%	1/4W	
R29	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R31	1-249-331-11	CARBON MELF	470	5%	1/8W	
R32	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R33	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R35	1-249-355-11	CARBON MELF	47K	5%	1/8W	
R36	1-249-429-11	CARBON (SMALL)	10K	5%	1/4W	
R37	1-249-359-11	CARBON MELF	100K	5%	1/8W	
R38	1-249-363-11	CARBON MELF	220K	5%	1/8W	
R39	1-249-339-11	CARBON MELF	2.2K	5%	1/8W	
R40	1-249-338-11	CARBON MELF	1.8K	5%	1/8W	
R41	1-249-344-11	CARBON MELF	5.6K	5%	1/8W	
R42	1-249-359-11	CARBON MELF	100K	5%	1/8W	
R43	1-249-363-11	CARBON MELF	220K	5%	1/8W	
R44	1-249-339-11	CARBON MELF	2.2K	5%	1/8W	

Ref.No	Part No.	Description				
R45	1-249-338-11	CARBON MELF	1.8K	5%	1/8W	
R46	1-249-344-11	CARBON MELF	5.6K	5%	1/8W	
R47	⚠ 1-249-409-11	CARBON (SMALL)	220	5%	1/4W	F
R61	1-249-359-11	CARBON MELF	100K	5%	1/8W	
R62	1-249-355-11	CARBON MELF	47K	5%	1/8W	
R63	1-249-315-11	CARBON MELF	22	5%	1/8W	
R81	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R82	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R83	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R84	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R85	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R86	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R87	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R88	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R89	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R90	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R91	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R92	⚠ 1-249-401-11	CARBON (SMALL)	47	5%	1/4W	F
R101	1-249-341-11	CARBON MELF	3.3K	5%	1/8W	
R102	1-249-332-11	CARBON MELF	560	5%	1/8W	
R103	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R104	1-249-328-11	CARBON MELF	270	5%	1/8W	
R105	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R106	1-249-339-11	CARBON MELF	2.2K	5%	1/8W	
R107	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R108	1-249-323-11	CARBON MELF	100	5%	1/8W	
R109	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R110	⚠ 1-249-405-11	CARBON (SMALL)	100	5%	1/4W	F
R301	1-249-411-11	CARBON	330	5%	1/4W	
R302	1-249-411-11	CARBON	330	5%	1/4W	
R303	1-249-411-11	CARBON	330	5%	1/4W	
R304	1-249-411-11	CARBON	330	5%	1/4W	
R305	1-249-429-11	CARBON	10K	5%	1/4W	
R306	1-249-429-11	CARBON	10K	5%	1/4W	
R307	1-249-429-11	CARBON	10K	5%	1/4W	
R308	1-249-429-11	CARBON	10K	5%	1/4W	
R309	1-249-431-11	CARBON	15K	5%	1/4W	
R310	1-249-441-11	CARBON	100K	5%	1/4W	
R311	1-249-437-11	CARBON	47K	5%	1/4W	
R324	1-249-425-11	CARBON	4.7K	5%	1/4W	
R326	1-249-441-11	CARBON	100K	5%	1/4W	
R327	1-249-410-11	CARBON	270	5%	1/4W	
R328	1-249-410-11	(AV310)....				
		CARBON	270	5%	1/4W	
R329	1-249-410-11	(AV310)....				
		CARBON	270	5%	1/4W	
R332	1-249-429-11	CARBON	10K	5%	1/4W	
R333	1-249-437-11	(AEP, WG)....				
		CARBON	47K	5%	1/4W	
R334	1-249-437-11	(AEP, WG)....				
		CARBON	47K	5%	1/4W	
R335	1-249-437-11	(AEP, WG)....				
		CARBON	47K	5%	1/4W	
R336	1-249-437-11	(AEP, WG)....				
		CARBON	47K	5%	1/4W	
R337	1-249-437-11	(AEP, WG)....				
		CARBON	47K	5%	1/4W	
R338	1-249-431-11	(AEP, WG)....				
		CARBON	15K	5%	1/4W	
R451	1-249-429-11	(AV310)....				
		CARBON	10K	5%	1/4W	
R452	1-249-393-11	(AV310)....				
		CARBON	10	5%	1/4W	
R453	1-249-417-11	(AV310)....				
		CARBON	1K	5%	1/4W	
R454	1-249-417-11	(AV310)....				
		CARBON	1K	5%	1/4W	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description				
R654	1-249-421-11	(AV210)....				
		CARBON	2.2K	5%	1/4W	
R655	1-247-758-11	(AV310)....				
		CARBON	3.3K	5%	1/2W	
R655	1-247-756-11	(AV210)....				
		CARBON	2.2K	5%	1/2W	
R656	1-249-417-11	CARBON	1K	5%	1/4W	
R657	1-217-151-00	METAL PLATE	0.22		2W	
R658	1-249-438-11	CARBON	56K	5%	1/4W	
R659	1-249-417-11	CARBON	1K	5%	1/4W	
R660	1-249-427-11	CARBON	6.8K	5%	1/4W	
R661	1-249-435-11	CARBON	33K	5%	1/4W	
R664	1-249-437-11	CARBON	47K	5%	1/4W	
R672	1-249-421-11	CARBON	2.2K	5%	1/4W	
R673	1-249-432-11	CARBON	18K	5%	1/4W	
R674	1-249-431-11	CARBON	15K	5%	1/4W	
R675	1-247-889-00	CARBON	270K	5%	1/4W	
R676	1-249-416-11	CARBON	820	5%	1/4W	
R677	1-249-427-11	CARBON	6.8K	5%	1/4W	
R678	1-247-727-11	CARBON	10	5%	1/2W	
R679	1-249-482-11	CARBON	4.7	5%	1/2W	
R680	⚠ 1-216-454-11	(AV310)....				
		METAL OXIDE	390	5%	2W	F
R680	⚠ 1-215-889-00	(AV210)....				
		METAL OXIDE	330	5%	2W	F
R684	1-249-393-11	(WG)....				
		CARBON	10	5%	1/4W	
R685	1-249-393-11	(WG)....				
		CARBON	10	5%	1/4W	
R801	⚠ 1-249-455-11	CARBON	4.7	5%	1/4W	F
R802	⚠ 1-216-448-11	METAL OXIDE	39	5%	2W	F
R803	1-249-426-11	CARBON	5.6K	5%	1/4W	
R804	⚠ 1-247-739-11	(AV310)....				
		CARBON	100	5%	1/2W	F
R804	⚠ 1-249-455-11	(AV210)....				
		CARBON	4.7	5%	1/4W	F
R805	⚠ 1-247-700-11	CARBON	100	5%	1/4W	F
R806	1-249-423-11	CARBON	3.3K	5%	1/4W	
R807	1-247-749-11	CARBON	560	5%	1/2W	
R808	⚠ 1-249-455-11	CARBON	4.7	5%	1/4W	F
R809	1-249-429-11	(AV310)....				
		CARBON	10K	5%	1/4W	
R810	1-249-417-11	(AV310)....				
		CARBON	1K	5%	1/4W	
R811	1-249-423-11	CARBON	3.3K	5%	1/4W	
R812	1-249-433-11	(AV310)....				
		CARBON	22K	5%	1/4W	
R812	1-249-429-11	(AV210)....				
		CARBON	10K	5%	1/4W	
R813	1-249-429-11	CARBON	10K	5%	1/4W	
R814	1-249-426-11	CARBON	5.6K	5%	1/4W	
R815	1-249-429-11	CARBON	10K	5%	1/4W	
R816	1-249-426-11	CARBON	5.6K	5%	1/4W	
R817	1-249-417-11	CARBON	1K	5%	1/4W	
R818	1-249-430-11	(AV210)....				
		CARBON	12K	5%	1/4W	
R851	1-249-393-11	(AV310)....				
		CARBON	10	5%	1/4W	
R852	1-249-437-11	CARBON	47K	5%	1/4W	
R853	1-249-437-11	CARBON	47K	5%	1/4W	
R911	1-249-425-11	(AV310)....				
		CARBON	4.7K	5%	1/4W	
R912	1-249-437-11	(AV310)....				
		CARBON	47K	5%	1/4W	
R913	1-249-396-11	(AV310)....				
		CARBON	18	5%	1/4W	
RB301	1-233-081-11	COMPOSITION CIRCUIT BLOCK				
RB302	1-232-955-11	COMPOSITION CIRCUIT BLOCK				

Ref.No	Part No.	Description
RB303	1-232-998-11	COMPOSITION CIRCUIT BLOCK
RV21	1-238-013-11	(AEP, UK)....RES, ADJ, CARBON 2.2K
RV21	1-238-015-11	(WG)....RES, ADJ, CARBON 4.7K
RV23	1-238-021-11	RES, ADJ, CARBON 220K
RV24	1-238-017-11	(AEP, UK)....RES, ADJ, CARBON 22K
RV24	1-238-019-11	(WG)....RES, ADJ, CARBON 47K
RV501	1-238-556-11	(AV310)....RES, VAR, CARBON 250K/250K (VOLUME) (INCLUDING VOL MOTOR)
RV501	1-238-074-11	(AV210)....RES, VAR, CARBON 100K/100K (VOLUME)
RV502	1-238-557-11	RES, VAR, CARBON 250K (BALANCE)
RV601	1-238-558-11	RES, VAR, CARBON 100K/100K (TONE BASS)
RV602	1-238-558-11	RES, VAR, CARBON 100K/100K (TONE TREBLE)
RY601	1-515-533-11	RELAY
RY901	1-515-720-11	(AV310)....RELAY
S301	1-554-303-21	SWITCH, KEY BOARD (TUNING DIRECT)
S302	1-554-303-21	SWITCH, KEY BOARD (PRESET −)
S303	1-554-303-21	SWITCH, KEY BOARD (TUNING −)
S304	1-554-303-21	SWITCH, KEY BOARD (BAND FM)
S305	1-554-303-21	SWITCH, KEY BOARD (FM MODE)
S306	1-554-303-21	SWITCH, KEY BOARD (PRESET +)
S307	1-554-303-21	SWITCH, KEY BOARD (TUNING +)
S308	1-554-303-21	SWITCH, KEY BOARD (BAND FM)
S310	1-554-303-21	SWITCH, KEY BOARD (TAPE)
S311	1-554-303-21	SWITCH, KEY BOARD (VIDEO)
S312	1-554-303-21	SWITCH, KEY BOARD (PHONE)
S313	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S314	1-554-303-21	SWITCH, KEY BOARD (CD)
S315	1-554-303-21	SWITCH, KEY BOARD (7)
S316	1-554-303-21	SWITCH, KEY BOARD (8)
S317	1-554-303-21	SWITCH, KEY BOARD (9)
S318	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S319	1-554-303-21	SWITCH, KEY BOARD (4)
S320	1-554-303-21	SWITCH, KEY BOARD (5)
S321	1-554-303-21	SWITCH, KEY BOARD (6)
S322	1-554-303-21	SWITCH, KEY BOARD (0)
S323	1-554-303-21	SWITCH, KEY BOARD (1)
S324	1-554-303-21	SWITCH, KEY BOARD (2)
S325	1-554-303-21	SWITCH, KEY BOARD (3)
S326	1-554-303-21	SWITCH, KEY BOARD (SHIFT)
S327	1-554-303-21	SWITCH, KEY BOARD (DBFB)
S328	1-554-303-21	(AV310)....SWITCH, KEY BOARD (MUTING −20dB)
S330	1-554-303-21	(AV310)....SWITCH, KEY BOARD (SYSTEM POWER)
S601	1-571-485-11	SWITCH, PUSH (2 KEY) (SPEAKERS A/B)
S901	⚠ 1-554-685-11	(AV210)....SWITCH, PUSH (AC POWER) (1 KEY) (POWER)
T21	1-404-807-11	TRANSFORMER, DISCRIMINATOR
T23	1-236-465-11	(WG)....ENCAPSULATED CONPONENT
T901	⚠ 1-449-706-11	(AV310 : AEP, WG)....TRANSFORMER, POWER
T901	⚠ 1-449-758-11	(UK)....TRANSFORMER, POWER
T901	⚠ 1-449-761-11	(AV210)....TRANSFORMER, POWER
T902	⚠ 1-448-523-11	(AV310)....TRANSFORMER, POWER
TM1	*1-537-138-31	TERMINAL BOARD (ANT) (ANTENNA)
TM901	1-536-706-00	TERMINAL BOARD (SP) (SPEAKER)
TP1	*1-560-060-00	PIN, CONNECTOR 2P
VZ901	⚠ 1-807-180-11	(AV310)....VARISTOR SNR-14A300K
X301	1-567-170-00	OSCILLATOR, CERAMIC (4.194MHz)
XT81	1-577-126-11	VIBRATOR, CRYSTAL (7.2MHz)

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description			
C503	1-102-106-00	(AEP, UK).... CERAMIC	100PF	10%	50V
C503	1-102-112-00	(WG)....CERAMIC	330PF	10%	50V
C504	1-124-963-11	ELECT	33MF	20%	16V
C505	1-130-480-00	MYLAR	0.0056MF	5%	50V
C506	1-130-473-00	MYLAR	0.0015MF	5%	50V
C507	1-123-382-00	ELECT	3.3MF	20%	50V
C508	1-123-382-00	ELECT	3.3MF	20%	50V
C509	1-123-382-00	ELECT	3.3MF	20%	50V
C510	1-130-495-00	MYLAR	0.1MF	5%	50V
C511	1-130-495-00	MYLAR	0.1MF	5%	50V
C512	1-124-250-00	ELECT	0.15MF	20%	50V
C513	1-102-112-00	CERAMIC	330PF	10%	50V
C514	1-123-875-11	ELECT	10MF	20%	50V
C515	1-162-211-31	CERAMIC	33PF	5%	50V
C516	1-123-875-11	ELECT	10MF	20%	50V
C518	1-124-927-11	(AV310)....ELECT	4.7MF	20%	50V
C519	1-162-294-31	CERAMIC	0.001MF	10%	50V
C520	1-124-927-11	ELECT	4.7MF	20%	50V
C521	1-123-875-11	ELECT	10MF	20%	50V
C522	1-123-875-11	ELECT	10MF	20%	50V
C523	1-161-055-00	CERAMIC	0.022MF	10%	50V
C551	1-102-106-00	CERAMIC	100PF	10%	50V
C552	1-123-382-00	ELECT	3.3MF	20%	50V
C553	1-102-106-00	(AEP, UK).... CERAMIC	100PF	10%	50V
C553	1-102-112-00	(WG)....CERAMIC	330PF	10%	50V
C554	1-124-963-11	ELECT	33MF	20%	16V
C555	1-130-480-00	MYLAR	0.0056MF	5%	50V
C556	1-130-473-00	MYLAR	0.0015MF	5%	50V
C557	1-123-382-00	ELECT	3.3MF	20%	50V
C558	1-123-382-00	ELECT	3.3MF	20%	50V
C559	1-123-382-00	ELECT	3.3MF	20%	50V
C560	1-130-495-00	MYLAR	0.1MF	5%	50V
C561	1-130-495-00	MYLAR	0.1MF	5%	50V
C562	1-124-250-00	ELECT	0.15MF	20%	50V
C563	1-102-112-00	CERAMIC	330PF	10%	50V
C564	1-123-875-11	ELECT	10MF	20%	50V
C565	1-162-211-31	CERAMIC	33PF	5%	50V
C566	1-123-875-11	ELECT	10MF	20%	50V
C568	1-123-875-11	ELECT	10MF	20%	50V
C571	1-123-875-11	ELECT	10MF	20%	50V
C573	1-161-055-00	CERAMIC	0.022MF	10%	50V
C601	1-124-927-11	ELECT	4.7MF	20%	50V
C602	1-102-112-00	CERAMIC	330PF	10%	50V
C603	1-162-286-31	CERAMIC	220PF	10%	50V
C604	1-124-122-11	ELECT	100MF	20%	50V
C605	1-126-233-11	ELECT	22MF	20%	25V
C606	1-126-101-11	ELECT	100MF	20%	16V
C607	1-130-489-00	MYLAR	0.033MF	5%	50V
C608	1-124-464-11	ELECT	0.22MF	20%	50V
C610	1-102-108-00	CERAMIC	150PF	10%	50V
C611	1-130-477-00	MYLAR	0.0033MF	5%	50V
C612	1-130-487-00	MYLAR	0.022MF	5%	50V
C613	1-136-164-00	MYLAR	0.082MF	10%	50V
C614	1-124-261-00	ELECT	10MF	20%	50V
C615	1-130-495-00	MYLAR	0.1MF	5%	50V
C616	1-123-875-11	ELECT	10MF	20%	50V
C617	1-124-472-11	ELECT	470MF	20%	6.3V
C618	1-161-055-00	CERAMIC	0.022MF	10%	25V
C619	1-136-164-00	MYLAR	0.082MF	10%	50V
C620	1-123-875-11	ELECT	10MF	20%	50V
C623	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C624	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C625	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C626	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V

Ref.No	Part No.	Description			
C635	1-136-161-00	(WG)....ELECT	0.047MF	10%	50V
C636A	1-136-161-00	(WG)....ELECT	0.047MF	10%	50V
C636B	1-102-106-00	(AV210 : WG).... CERAMIC	100PF	10%	50V
C637	1-130-487-00	(WG)....MYLER	0.022MF	5%	50V
C638	1-102-110-00	(WG).... CERAMIC	220PF	10%	50V
C651	1-124-927-11	ELECT	4.7MF	20%	50V
C652	1-102-112-00	CERAMIC	330PF	10%	50V
C653	1-162-286-31	CERAMIC	220PF	10%	50V
C654	1-124-122-11	ELECT	100MF	20%	50V
C655	1-126-233-11	ELECT	22MF	20%	25V
C656	1-126-101-11	ELECT	100MF	20%	16V
C657	1-130-489-00	MAYLAR	0.033MF	5%	50V
C658	1-124-464-11	ELECT	0.22MF	20%	50V
C660	1-102-108-00	CERAMIC	150PF	10%	50V
C661	1-130-477-00	MAYLAR	0.0033MF	5%	50V
C662	1-130-487-00	MAYLAR	0.022MF	5%	50V
C663	1-136-164-00	MAYLAR	0.082MF	10%	50V
C664	1-124-261-00	ELECT	10MF	20%	50V
C665	1-130-495-00	MAYLAR	0.1MF	5%	50V
C668	1-161-055-00	CERAMIC	0.022MF	10%	25V
C669	1-136-164-00	MAYLAR	0.082MF	10%	50V
C673	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C674	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C675	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C676	1-161-051-00	(WG)....CERAMIC	0.01MF	10%	50V
C685	1-136-161-00	(WG)....ELECT	0.047MF	10%	50V
C686	1-136-161-00	(WG)....ELECT	0.047MF	10%	50V
C801	1-126-307-11	ELECT	6800MF	20%	50V
C802	1-126-307-11	ELECT	6800MF	20%	50V
C803	1-126-101-11	ELECT	100MF	20%	16V
C804	1-124-910-11	ELECT	47MF	20%	50V
C805	1-124-963-11	ELECT	33MF	20%	16V
C806	1-123-875-11	ELECT	10MF	20%	50V
C807	1-123-875-11	ELECT	10MF	20%	50V
C808	1-124-927-11	ELECT	4.7MF	20%	50V
C810	1-124-499-11	ELECT	1MF	20%	50V
C811	1-124-477-11	ELECT	47MF	20%	16V
C812	1-123-875-11	ELECT	10MF	20%	50V
C813	1-124-464-11	ELECT	0.22MF	20%	50V
C816	1-130-777-51	FILM	0.1MF	5%	100V
C817	1-130-777-51	FILM	0.1MF	5%	100V
C818	1-161-055-00	CERAMIC	0.022MF	10%	50V
C819	1-161-055-00	CERAMIC	0.022MF	10%	50V
C851	1-123-875-11	ELECT	10MF	20%	50V
C852	1-124-464-11	(AV310)....ELECT	0.22MF	20%	50V
C853	1-124-464-11	(AV310)....ELECT	0.22MF	20%	50V
C901 ⚠	1-161-744-00	CERAMIC	0.01MF		400V
C912	1-124-557-11	(AV310)....ELECT	1000MF	20%	25V
CC2	1-249-366-11	CARBON MELF 0		5%	1/5W
CC3	1-249-366-11	CARBON MELF 0		5%	1/5W
CC5	1-249-366-11	CARBON MELF 0		5%	1/5W

CF1	1-567-389-11	FILTER, CERAMIC
CF2	1-567-389-11	FILTER, CERAMIC
CF3	1-567-389-11	(WG)....FILTER, CERAMIC
CF21	1-577-075-11	OSCILLATOR, CERAMIC (19KHz)
CFT21	1-404-853-11	TRANSFORMER, IF (CERAMIC FILTER)
CNJ1	*1-568-276-11	SOCKET, CONNECTOR 10P
CNJ2	1-568-269-11	SOCKET, CONNECTOR 3P
CNJ4	1-568-307-11	SOCKET, CONNECTOR 3P
CNJ501	*1-562-327-00	SOCKET, CONNECTOR 3P
CNJ502	*1-564-777-11	PLUG, CONNECTOR (2.5MM) 2P
CNJ503	1-568-285-11	SOCKET, CONNECTOR 10P
CNJ504	1-568-278-11	SOCKET, CONNECTOR 3P

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description
CNJ505	*1-562-327-00	SOCKET, CONNECTOR 3P
CNJ506	*1-562-327-00	SOCKET, CONNECTOR 3P
CNJ601	*1-506-708-11	PLUG, CONNECTOR (2.5MM) 5P
CNJ602	*1-506-707-11	PLUG, CONNECTOR (2.5MM) 3P
CNJ603	*1-562-564-11	SOCKET, CONNECTOR 8P
CNJ604	*1-562-564-11	SOCKET, CONNECTOR 8P
CNJ605	*1-562-249-00	SOCKET, CONNECTOR 4P
CNJ606	*1-562-250-00	SOCKET, CONNECTOR 5P
CNJ607	*1-562-327-00	SOCKET, CONNECTOR 3P
CNJ608	*1-562-327-00	SOCKET, CONNECTOR 3P
CNJ609	*1-562-327-00	SOCKET, CONNECTOR 3P
CNJ610	*1-562-250-00	SOCKET, CONNECTOR 5P
CNJ611	*1-562-250-00	SOCKET, CONNECTOR 5P
CNJ612	*1-506-707-11	PLUG, CONNECTOR (2.5MM) 3P
CNJ801	*1-562-327-00	SOCKET, CONNECTOR 3P
CNJ901 ⚠	1-526-751-00	(AV310 : UK)....OUTLET, AC
CNJ901 ⚠	1-526-794-11	(AV310 : AEP, WG)....OUTLET, AC
CNJ902	*1-562-249-00	SOCKET, CONNECTOR 4P
CNP451	*1-564-778-11	(AV310)....PLUG, CONNECTOR (2.5MM) 4P (CONTROL S OUT)
CNP601	1-565-419-11	PIN, CONNECTOR 10P
CNP602	1-565-419-11	PIN, CONNECTOR 10P
CNP801	1-566-213-11	(AV310)....PIN, CONNECTOR 4P
CP801	1-102-394-11	CERAMIC 0.01MF 250VX2
CP911	1-102-394-11	(AV310)....CERAMIC 0.01MF 250VX2
D301	8-719-000-26	DIODE US1060M
D302	8-719-000-26	DIODE US1060M
D303	8-719-000-26	DIODE US1060M
D304	8-719-000-26	DIODE US1060M
D305	8-719-000-26	DIODE US1060M
D306	8-719-000-26	DIODE US1060M
D307	8-719-000-26	DIODE US1060M
D308	8-719-000-26	DIODE US1060M
D309	8-719-000-26	DIODE US1060M
D310	8-719-000-26	DIODE US1060M
D311	8-719-000-26	DIODE US1060M
D313	8-719-914-11	DIODE HZ4ALL
D314	8-719-000-26	DIODE US1060M
D315	8-719-000-26	(AV310)....DIODE US1060M
D316	8-719-000-26	DIODE US1060M
D317	8-719-301-52	DIODE SEL2810A-C
D318	8-719-301-52	(AV310)....DIODE SEL2810A-C
D319	8-719-301-38	(AV310)....DIODE SEL2210S-C
D320	8-719-000-26	(AEP, WG)....DIODE US1060M
D321	8-719-000-26	DIODE US1060M
D322	8-719-000-26	(AEP, WG)....DIODE US1060M
D324	8-719-000-26	DIODE US1060M
D325	8-719-000-26	DIODE US1060M
D331	8-719-000-26	DIODE US1060M
D332	8-719-000-26	DIODE US1060M
D451	8-719-000-26	(AV310)....DIODE US1060M
D501	8-719-000-26	DIODE US1060M
D502	8-719-000-26	DIODE US1060M
D503	8-719-000-26	DIODE US1060M
D504	8-719-000-26	DIODE US1060M
D601	8-719-000-26	DIODE US1060M
D602	8-719-000-26	DIODE US1060M
D603	8-719-000-26	DIODE US1060M
D651	8-719-000-26	DIODE US1060M
D801	8-719-300-57	DIODE RB402
D805	8-719-010-29	DIODE UZ-4.3BSB
D806	8-719-010-86	DIODE UZ-16BSB
D807	8-719-010-99	DIODE UZ-22BSC
D808	8-719-010-82	DIODE UZ-15BSB
D809	8-719-303-00	(AV310)....DIODE SEL2510C

Ref.No	Part No.	Description
D810	8-719-010-47	DIODE UZ-6.2BSC
D811	8-719-933-41	DIODE HZS6C3L
D812	8-719-914-11	DIODE HZ4ALL
D813	8-719-000-06	(AV210)....DIODE MC921
D903	8-719-511-40	(AV310)....DIODE S1VB40
D912	8-719-000-06	(AV310)....DIODE MC921
D913	8-719-000-26	(AV310)....DIODE US1060M
F901 ⚠	1-532-973-11	(AV310)....FUSE (T1.6A)
F902 ⚠	1-532-967-11	(AV210)....FUSE (1.25A)
F902 ⚠	1-532-973-11	(AV310)....FUSE (T1.6A)
F903 ⚠	1-532-973-11	(AV310)....FUSE (T1.6A)
FE1	1-463-857-11	(WG)....FRONT END, FM
FE1	1-463-862-21	(AEP, UK)....FRONT END, FM
FE61	1-236-461-11	ENCAPSULATED COMPONENT (MW BLOCK)
FL301	1-519-509-11	INDICATOR TUBE, FLUORESCENT
IC21	8-759-821-45	IC LA1851N
IC81	8-759-820-91	IC LC7218
IC301	8-759-144-64	IC UPD75206G-550-1B
IC302	8-749-920-59	(AV310)....IC A1QH3020S
IC303	8-759-800-95	IC LB1493
IC501	8-759-112-93	IC UPC4570HA-1
IC502	8-759-805-14	IC LC7822
IC503	8-759-820-62	(AV310)....IC LB1639
IC504	8-759-112-93	IC UPC4570HA-1
IC601	8-749-900-24	(AV210)....IC STK-4162MK2
IC601	8-749-900-34	(AV310)....IC STK-4182MK2
J501	1-565-320-11	JACK, PIN 6P (PHONO IN/CD IN/TAPE REC OUT)
J502	1-565-320-11	JACK, PIN 6P (TAPE IN/VIDEO AUDIO OUT/ AUDIO IN)
J601	1-507-863-51	JACK, LARGE TYPE (HEADPHONES)
L1	1-410-521-11	MICRO INDUCTOR 100UH
L2	1-410-521-11	(WG)....MICRO INDUCTOR 100UH
L21	1-410-171-11	MICRO INDUCTOR 1MMH
L301	1-410-521-11	INDUCTOR 100UH
L601	*1-420-872-00	COIL, AIR CORE
L651	*1-420-872-00	COIL, AIR CORE
LPF21	1-235-164-00	FILTER, LOW PASS
LPF22	1-235-164-00	FILTER, LOW PASS
Q1	8-729-266-93	TRANSISTOR 2SC2669
Q2	8-729-266-93	TRANSISTOR 2SC2669
Q3	8-729-266-93	(WG)....TRANSISTOR 2SC2669
Q4	8-729-266-93	(WG)....TRANSISTOR 2SC2669
Q21	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q22	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q23	8-729-806-10	TRANSISTOR 2SA1348
Q24	8-729-900-80	TRANSISTOR DTC114ES
Q81	8-729-806-10	TRANSISTOR 2SA1348
Q82	8-729-900-80	TRANSISTOR DTC114ES
Q83	8-729-202-67	TRANSISTOR 2SK246-GR3
Q84	8-729-201-84	TRANSISTOR 2SC3112-B
Q301	8-729-900-36	TRANSISTOR DTC124ES
Q302	8-729-900-36	(AV310)....TRANSISTOR DTC124ES
Q303	8-729-900-36	(AV310)....TRANSISTOR DTC124ES
Q305	8-729-900-36	TRANSISTOR DTC124ES
Q451	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q452	8-729-900-63	(AV310)....TRANSISTOR DTA124ES
Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q502	8-729-900-36	(AV310)....TRANSISTOR DTC124ES
Q503	8-729-107-98	TRANSISTOR 2SC3622A-L
Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q505	8-729-900-36	TRANSISTOR DTC124ES
Q551	8-729-119-78	TRANSISTOR 2SC2785-HFE

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description
Q552	8-729-900-36	(AV310)....TRANSISTOR DTC124ES
Q553	8-729-107-98	TRANSISTOR 2SC3622A-L
Q601	8-729-108-14	TRANSISTOR 2SA988-F
Q602	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q603	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q604	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q605	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q651	8-729-108-14	TRANSISTOR 2SA988-F
Q801	8-729-107-25	TRANSISTOR 2SD1585-L
Q802	8-729-140-99	TRANSISTOR 2SB734-34
Q803	8-729-180-92	TRANSISTOR 2SD809
Q804	8-729-115-22	TRANSISTOR BN1A3Q
Q805	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q806	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q807	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q808	8-729-119-78	(AV310)....TRANSISTOR 2SC2785-HFE
Q911	8-729-119-78	(AV310)....TRANSISTOR 2SC2785-HFE

RESISTOR

Ref.No	Part No.	Description				
R1	⚠ 1-249-401-11	(AEP, UK).... CARBON (SMALL)	47	5%	1/4W	F
R1	⚠ 1-249-397-11	(WG).... CARBON (SMALL)	22	5%	1/4W	F
R3	1-249-329-11	CARBON MELF	330	5%	1/8W	
R4	1-249-329-11	CARBON MELF	330	5%	1/8W	
R5	1-249-329-11	CARBON MELF	330	5%	1/8W	
R6	1-249-350-11	CARBON MELF	18K	5%	1/8W	
R7	1-249-329-11	CARBON MELF	330	5%	1/8W	
R8	1-249-332-11	CARBON MELF	560	5%	1/8W	
R9	1-249-352-11	CARBON MELF	27K	5%	1/8W	
R10	1-249-329-11	(WG).... CARBON MELF	330	5%	1/8W	
R11	1-249-350-11	(WG).... CARBON MELF	18K	5%	1/8W	
R12	1-249-329-11	(WG).... CARBON MELF	330	5%	1/8W	
R13	1-249-334-11	(WG).... CARBON MELF	820	5%	1/8W	
R14	1-249-352-11	(WG).... CARBON MELF	27K	5%	1/8W	
R15	1-249-347-11	(WG).... CARBON MELF	10K	5%	1/8W	
R16	1-249-343-11	(WG).... CARBON MELF	4.7K	5%	1/8W	
R21	⚠ 1-249-404-00	CARBON (SMALL)	82	5%	1/4W	F
R22	1-249-433-11	CARBON (SMALL)	22K	5%	1/4W	
R23	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R24	1-249-353-11	CARBON MELF	33K	5%	1/8W	
R25	1-249-346-11	CARBON	8.2K	5%	1/8W	
R26	1-249-340-11	(WG).... CARBON MELF	2.7K	5%	1/8W	
R27	1-249-432-11	CARBON (SMALL)	18K	5%	1/4W	
R28	1-249-423-11	CARBON (SMALL)	3.3K	5%	1/4W	
R29	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R31	1-249-331-11	CARBON MELF	470	5%	1/8W	
R32	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R33	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R35	1-249-355-11	CARBON MELF	47K	5%	1/8W	
R36	1-249-429-11	CARBON (SMALL)	10K	5%	1/4W	
R37	1-249-359-11	CARBON MELF	100K	5%	1/8W	
R38	1-249-363-11	CARBON MELF	220K	5%	1/8W	
R39	1-249-339-11	CARBON MELF	2.2K	5%	1/8W	
R40	1-249-338-11	CARBON MELF	1.8K	5%	1/8W	
R41	1-249-344-11	CARBON MELF	5.6K	5%	1/8W	
R42	1-249-359-11	CARBON MELF	100K	5%	1/8W	
R43	1-249-363-11	CARBON MELF	220K	5%	1/8W	
R44	1-249-339-11	CARBON MELF	2.2K	5%	1/8W	

Ref.No	Part No.	Description				
R45	1-249-338-11	CARBON MELF	1.8K	5%	1/8W	
R46	1-249-344-11	CARBON MELF	5.6K	5%	1/8W	
R47	⚠ 1-249-409-11	CARBON (SMALL)	220	5%	1/4W	F
R61	1-249-359-11	CARBON MELF	100K	5%	1/8W	
R62	1-249-355-11	CARBON MELF	47K	5%	1/8W	
R63	1-249-315-11	CARBON MELF	22	5%	1/8W	
R81	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R82	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R83	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R84	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R85	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R86	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R87	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R88	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R89	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R90	1-249-347-11	CARBON MELF	10K	5%	1/8W	
R91	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R92	⚠ 1-249-401-11	CARBON (SMALL)	47	5%	1/4W	F
R101	1-249-341-11	CARBON MELF	3.3K	5%	1/8W	
R102	1-249-332-11	CARBON MELF	560	5%	1/8W	
R103	1-249-335-11	CARBON MELF	1K	5%	1/8W	
R104	1-249-328-11	CARBON MELF	270	5%	1/8W	
R105	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R106	1-249-339-11	CARBON MELF	2.2K	5%	1/8W	
R107	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R108	1-249-323-11	CARBON MELF	100	5%	1/8W	
R109	1-249-343-11	CARBON MELF	4.7K	5%	1/8W	
R110	⚠ 1-249-405-11	CARBON (SMALL)	100	5%	1/4W	F
R301	1-249-411-11	CARBON	330	5%	1/4W	
R302	1-249-411-11	CARBON	330	5%	1/4W	
R303	1-249-411-11	CARBON	330	5%	1/4W	
R304	1-249-411-11	CARBON	330	5%	1/4W	
R305	1-249-429-11	CARBON	10K	5%	1/4W	
R306	1-249-429-11	CARBON	10K	5%	1/4W	
R307	1-249-429-11	CARBON	10K	5%	1/4W	
R308	1-249-429-11	CARBON	10K	5%	1/4W	
R309	1-249-431-11	CARBON	15K	5%	1/4W	
R310	1-249-441-11	CARBON	100K	5%	1/4W	
R311	1-249-437-11	CARBON	47K	5%	1/4W	
R324	1-249-425-11	CARBON	4.7K	5%	1/4W	
R326	1-249-441-11	CARBON	100K	5%	1/4W	
R327	1-249-410-11	CARBON	270	5%	1/4W	
R328	1-249-410-11	(AV310).... CARBON	270	5%	1/4W	
R329	1-249-410-11	(AV310).... CARBON	270	5%	1/4W	
R332	1-249-429-11	CARBON	10K	5%	1/4W	
R333	1-249-437-11	(AEP, WG).... CARBON	47K	5%	1/4W	
R334	1-249-437-11	(AEP, WG).... CARBON	47K	5%	1/4W	
R335	1-249-437-11	(AEP, WG).... CARBON	47K	5%	1/4W	
R336	1-249-437-11	(AEP, WG).... CARBON	47K	5%	1/4W	
R337	1-249-437-11	(AEP, WG).... CARBON	47K	5%	1/4W	
R338	1-249-431-11	(AEP, WG).... CARBON	15K	5%	1/4W	
R451	1-249-429-11	(AV310).... CARBON	10K	5%	1/4W	
R452	1-249-393-11	(AV310).... CARBON	10	5%	1/4W	
R453	1-249-417-11	(AV310).... CARBON	1K	5%	1/4W	
R454	1-249-417-11	(AV310).... CARBON	1K	5%	1/4W	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description			
R455	1-249-437-11	CARBON	47K	5%	1/4W
R456	1-249-437-11	CARBON	47K	5%	1/4W
R457	1-249-437-11	CARBON	47K	5%	1/4W
R458	1-249-437-11	CARBON	47K	5%	1/4W
R459	1-249-413-11	CARBON	470	5%	1/4W
R460	1-249-437-11	CARBON	47K	5%	1/4W
R461	1-247-698-11	CARBON	47	5%	1/4W
R501	1-249-425-11	CARBON	4.7K	5%	1/4W
R502	1-247-897-11	CARBON	560K	5%	1/4W
R503	1-249-417-11	CARBON	1K	5%	1/4W
R504	1-249-425-11	CARBON	4.7K	5%	1/4W
R505	1-247-897-11	CARBON	560K	5%	1/4W
R506	1-249-417-11	CARBON	1K	5%	1/4W
R507	1-249-417-11	CARBON	1K	5%	1/4W
R508	1-249-411-11	CARBON	330	5%	1/4W
R509	1-249-437-11	CARBON	47K	5%	1/4W
R510	1-247-897-11	CARBON	560K	5%	1/4W
R511	1-249-417-11	CARBON	1K	5%	1/4W
R512	1-247-897-11	CARBON	560K	5%	1/4W
R513	1-249-437-11	CARBON	47K	5%	1/4W
R514	1-249-417-11	CARBON	1K	5%	1/4W
R515	1-249-411-11	CARBON	330	5%	1/4W
R516	1-249-425-11	CARBON	4.7K	5%	1/4W
R518	1-249-433-11	CARBON	22K	5%	1/4W
R519	1-249-422-11	CARBON	2.7K	5%	1/4W
R520	1-247-887-00	CARBON	220K	5%	1/4W
R521	1-249-429-11	CARBON	10K	5%	1/4W
R522	1-249-426-11	CARBON	5.6K	5%	1/4W
R523	1-249-413-11	CARBON	470	5%	1/4W
R524	1-249-441-11	CARBON	100K	5%	1/4W
R526	1-249-441-11	CARBON	100K	5%	1/4W
R527	1-249-405-11	CARBON	100	5%	1/4W
R528	1-249-429-11	CARBON	10K	5%	1/4W
R529	1-249-429-11	(AV310).... CARBON	10K	5%	1/4W
R530	1-249-413-11	(AV310).... CARBON	470	5%	1/4W
R531	1-249-433-11	CARBON	22K	5%	1/4W
R532	1-249-421-11	CARBON	2.2K	5%	1/4W
R534	1-249-441-11	CARBON	100K	5%	1/4W
R535	1-249-441-11	CARBON	100K	5%	1/4W
R539	1-249-425-11	CARBON	4.7K	5%	1/4W
R540	1-249-435-11	CARBON	33K	5%	1/4W
R541	1-247-897-11	CARBON	560K	5%	1/4W
R542	1-249-421-11	CARBON	2.2K	5%	1/4W
R543	1-249-429-11	CARBON	10K	5%	1/4W
R544	1-249-417-11	(WG).... CARBON	1K	5%	1/4W
R551	1-249-425-11	CARBON	4.7K	5%	1/4W
R552	1-247-897-11	CARBON	560K	5%	1/4W
R553	1-249-417-11	CARBON	1K	5%	1/4W
R554	1-249-425-11	CARBON	4.7K	5%	1/4W
R555	1-247-897-11	CARBON	560K	5%	1/4W
R556	1-249-417-11	CARBON	1K	5%	1/4W
R557	1-249-417-11	CARBON	1K	5%	1/4W
R558	1-249-411-11	CARBON	330	5%	1/4W
R559	1-249-437-11	CARBON	47K	5%	1/4W
R560	1-247-897-11	CARBON	560K	5%	1/4W
R561	1-249-417-11	CARBON	1K	5%	1/4W
R562	1-247-897-11	CARBON	560K	5%	1/4W
R563	1-249-437-11	CARBON	47K	5%	1/4W
R564	1-249-417-11	CARBON	1K	5%	1/4W
R565	1-249-411-11	CARBON	330	5%	1/4W
R568	1-249-433-11	CARBON	22K	5%	1/4W
R569	1-249-422-11	CARBON	2.7K	5%	1/4W
R570	1-247-887-00	CARBON	220K	5%	1/4W

Ref.No	Part No.	Description				
R571	1-249-429-11	CARBON	10K	5%	1/4W	
R572	1-249-426-11	CARBON	5.6K	5%	1/4W	
R573	1-249-413-11	CARBON	470	5%	1/4W	
R576	1-249-441-11	CARBON	100K	5%	1/4W	
R578	1-249-429-11	CARBON	10K	5%	1/4W	
R579	1-249-441-11	(AV310).... CARBON	100K	5%	1/4W	
R580	1-249-413-11	(AV310).... CARBON	470	5%	1/4W	
R589	1-249-425-11	CARBON	4.7K	5%	1/4W	
R590	1-249-435-11	CARBON	33K	5%	1/4W	
R591	1-247-897-11	CARBON	560K	5%	1/4W	
R592	1-249-421-11	CARBON	2.2K	5%	1/4W	
R594	1-249-417-11	(WG).... CARBON	1K	5%	1/4W	
R602	1-249-421-11	CARBON	2.2K	5%	1/4W	
R603	1-249-438-11	CARBON	56K	5%	1/4W	
R604	1-249-423-11	(AV310).... CARBON	3.3K	5%	1/4W	
R604	1-249-421-11	(AV210).... CARBON	2.2K	5%	1/4W	
R605	1-247-758-11	(AV310).... CARBON	3.3K	5%	1/2W	
R605	1-247-756-11	(AV210).... CARBON	2.2K	5%	1/2W	
R606	1-249-417-11	CARBON	1K	5%	1/4W	
R607	1-217-151-00	METAL PLATE	0.22		2W	
R608	1-249-438-11	CARBON	56K	5%	1/4W	
R609	1-249-417-11	CARBON	1K	5%	1/4W	
R610	1-249-427-11	CARBON	6.8K	5%	1/4W	
R611	1-249-435-11	CARBON	33K	5%	1/4W	
R612	⚠ 1-247-700-11	CARBON	100	5%	1/4W	F
R614	1-249-437-11	CARBON	47K	5%	1/4W	
R615	⚠ 1-247-700-11	CARBON	100	5%	1/4W	F
R616	1-249-441-11	CARBON	100K	5%	1/4W	
R617	1-249-433-11	CARBON	22K	5%	1/4W	
R618	1-249-417-11	CARBON	1K	5%	1/4W	
R619	1-249-429-11	CARBON	10K	5%	1/4W	
R620	⚠ 1-216-432-00	(AV310).... METAL OXIDE	820	5%	1W	F
R620	⚠ 1-247-704-11	(AV210).... CARBON	220	5%	1/4W	F
R621	1-249-435-11	CARBON	33K	5%	1/4W	
R622	1-249-421-11	CARBON	2.2K	5%	1/4W	
R623	1-249-432-11	CARBON	18K	5%	1/4W	
R624	1-249-431-11	CARBON	15K	5%	1/4W	
R625	1-247-889-00	CARBON	270K	5%	1/4W	
R626	1-249-416-11	CARBON	820	5%	1/4W	
R627	1-249-427-11	CARBON	6.8K	5%	1/4W	
R628	1-247-727-11	CARBON	10	5%	1/2W	
R629	1-249-482-11	CARBON	4.7	5%	1/2W	
R630	⚠ 1-216-454-11	(AV310).... METAL OXIDE	390	5%	2W	F
R630	⚠ 1-215-889-00	(AV210).... METAL OXIDE	330	5%	2W	F
R631	1-249-427-11	CARBON	6.8K	5%	1/4W	
R633	⚠ 1-247-694-11	CARBON	33	5%	1/4W	F
R634	1-249-393-11	(WG).... CARBON	10	5%	1/4W	
R635	1-249-393-11	(WG).... CARBON	10	5%	1/4W	
R652	1-249-421-11	CARBON	2.2K	5%	1/4W	
R653	1-249-438-11	CARBON	56K	5%	1/4W	
R654	1-249-423-11	(AV310).... CARBON	3.3K	5%	1/4W	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description				
R654	1-249-421-11	(AV210)....				
		CARBON	2.2K	5%	1/4W	
R655	1-247-758-11	(AV310)....				
		CARBON	3.3K	5%	1/2W	
R655	1-247-756-11	(AV210)....				
		CARBON	2.2K	5%	1/2W	
R656	1-249-417-11	CARBON	1K	5%	1/4W	
R657	1-217-151-00	METAL PLATE	0.22		2W	
R658	1-249-438-11	CARBON	56K	5%	1/4W	
R659	1-249-417-11	CARBON	1K	5%	1/4W	
R660	1-249-427-11	CARBON	6.8K	5%	1/4W	
R661	1-249-435-11	CARBON	33K	5%	1/4W	
R664	1-249-437-11	CARBON	47K	5%	1/4W	
R672	1-249-421-11	CARBON	2.2K	5%	1/4W	
R673	1-249-432-11	CARBON	18K	5%	1/4W	
R674	1-249-431-11	CARBON	15K	5%	1/4W	
R675	1-247-889-00	CARBON	270K	5%	1/4W	
R676	1-249-416-11	CARBON	820	5%	1/4W	
R677	1-249-427-11	CARBON	6.8K	5%	1/4W	
R678	1-247-727-11	CARBON	10	5%	1/2W	
R679	1-249-482-11	CARBON	4.7	5%	1/2W	
R680	⚠ 1-216-454-11	(AV310)....				
		METAL OXIDE	390	5%	2W	F
R680	⚠ 1-215-889-00	(AV210)....				
		METAL OXIDE	330	5%	2W	F
R684	1-249-393-11	(WG)....				
		CARBON	10	5%	1/4W	
R685	1-249-393-11	(WG)....				
		CARBON	10	5%	1/4W	
R801	⚠ 1-249-455-11	CARBON	4.7	5%	1/4W	F
R802	⚠ 1-216-448-11	METAL OXIDE	39	5%	2W	F
R803	1-249-426-11	CARBON	5.6K	5%	1/4W	
R804	⚠ 1-247-739-11	(AV310)....				
		CARBON	100	5%	1/2W	F
R804	⚠ 1-249-455-11	(AV210)....				
		CARBON	4.7	5%	1/4W	F
R805	⚠ 1-247-700-11	CARBON	100	5%	1/4W	F
R806	1-249-423-11	CARBON	3.3K	5%	1/4W	
R807	1-247-749-11	CARBON	560	5%	1/2W	
R808	⚠ 1-249-455-11	CARBON	4.7	5%	1/4W	F
R809	1-249-429-11	(AV310)....				
		CARBON	10K	5%	1/4W	
R810	1-249-417-11	(AV310)....				
		CARBON	1K	5%	1/4W	
R811	1-249-423-11	CARBON	3.3K	5%	1/4W	
R812	1-249-433-11	(AV310)....				
		CARBON	22K	5%	1/4W	
R812	1-249-429-11	(AV210)....				
		CARBON	10K	5%	1/4W	
R813	1-249-429-11	CARBON	10K	5%	1/4W	
R814	1-249-426-11	CARBON	5.6K	5%	1/4W	
R815	1-249-429-11	CARBON	10K	5%	1/4W	
R816	1-249-426-11	CARBON	5.6K	5%	1/4W	
R817	1-249-417-11	CARBON	1K	5%	1/4W	
R818	1-249-430-11	(AV210)....				
		CARBON	12K	5%	1/4W	
R851	1-249-393-11	(AV310)....				
		CARBON	10	5%	1/4W	
R852	1-249-437-11	CARBON	47K	5%	1/4W	
R853	1-249-437-11	CARBON	47K	5%	1/4W	
R911	1-249-425-11	(AV310)....				
		CARBON	4.7K	5%	1/4W	
R912	1-249-437-11	(AV310)....				
		CARBON	47K	5%	1/4W	
R913	1-249-396-11	(AV310)....				
		CARBON	18	5%	1/4W	
RB301	1-233-081-11	COMPOSITION CIRCUIT BLOCK				
RB302	1-232-955-11	COMPOSITION CIRCUIT BLOCK				

Ref.No	Part No.	Description
RB303	1-232-998-11	COMPOSITION CIRCUIT BLOCK
RV21	1-238-013-11	(AEP, UK)....RES, ADJ, CARBON 2.2K
RV21	1-238-015-11	(WG)....RES, ADJ, CARBON 4.7K
RV23	1-238-021-11	RES, ADJ, CARBON 220K
RV24	1-238-017-11	(AEP, UK)....RES, ADJ, CARBON 22K
RV24	1-238-019-11	(WG)....RES, ADJ, CARBON 47K
RV501	1-238-556-11	(AV310)....RES, VAR, CARBON 250K/250K (VOLUME) (INCLUDING VOL MOTOR)
RV501	1-238-074-11	(AV210)....RES, VAR, CARBON 100K/100K (VOLUME)
RV502	1-238-557-11	RES, VAR, CARBON 250K (BALANCE)
RV601	1-238-558-11	RES, VAR, CARBON 100K/100K (TONE BASS)
RV602	1-238-558-11	RES, VAR, CARBON 100K/100K (TONE TREBLE)
RY601	1-515-533-11	RELAY
RY901	1-515-720-11	(AV310)....RELAY
S301	1-554-303-21	SWITCH, KEY BOARD (TUNING DIRECT)
S302	1-554-303-21	SWITCH, KEY BOARD (PRESET −)
S303	1-554-303-21	SWITCH, KEY BOARD (TUNING −)
S304	1-554-303-21	SWITCH, KEY BOARD (BAND FM)
S305	1-554-303-21	SWITCH, KEY BOARD (FM MODE)
S306	1-554-303-21	SWITCH, KEY BOARD (PRESET +)
S307	1-554-303-21	SWITCH, KEY BOARD (TUNING +)
S308	1-554-303-21	SWITCH, KEY BOARD (BAND FM)
S310	1-554-303-21	SWITCH, KEY BOARD (TAPE)
S311	1-554-303-21	SWITCH, KEY BOARD (VIDEO)
S312	1-554-303-21	SWITCH, KEY BOARD (PHONE)
S313	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S314	1-554-303-21	SWITCH, KEY BOARD (CD)
S315	1-554-303-21	SWITCH, KEY BOARD (7)
S316	1-554-303-21	SWITCH, KEY BOARD (8)
S317	1-554-303-21	SWITCH, KEY BOARD (9)
S318	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S319	1-554-303-21	SWITCH, KEY BOARD (4)
S320	1-554-303-21	SWITCH, KEY BOARD (5)
S321	1-554-303-21	SWITCH, KEY BOARD (6)
S322	1-554-303-21	SWITCH, KEY BOARD (0)
S323	1-554-303-21	SWITCH, KEY BOARD (1)
S324	1-554-303-21	SWITCH, KEY BOARD (2)
S325	1-554-303-21	SWITCH, KEY BOARD (3)
S326	1-554-303-21	SWITCH, KEY BOARD (SHIFT)
S327	1-554-303-21	SWITCH, KEY BOARD (DBFB)
S328	1-554-303-21	(AV310)....SWITCH, KEY BOARD (MUTING −20dB)
S330	1-554-303-21	(AV310)....SWITCH, KEY BOARD (SYSTEM POWER)
S601	1-571-485-11	SWITCH, PUSH (2 KEY) (SPEAKERS A/B)
S901	⚠ 1-554-685-11	(AV210)....SWITCH, PUSH (AC POWER) (1 KEY) (POWER)
T21	1-404-807-11	TRANSFORMER, DISCRIMINATOR
T23	1-236-465-11	(WG)....ENCAPSULATED CONPONENT
T901	⚠ 1-449-706-11	(AV310 : AEP, WG)....TRANSFORMER, POWER
T901	⚠ 1-449-758-11	(UK)....TRANSFORMER, POWER
T901	⚠ 1-449-761-11	(AV210)....TRANSFORMER, POWER
T902	⚠ 1-448-523-11	(AV310)....TRANSFORMER, POWER
TM1	*1-537-138-31	TERMINAL BOARD (ANT) (ANTENNA)
TM901	1-536-706-00	TERMINAL BOARD (SP) (SPEAKER)
TP1	*1-560-060-00	PIN, CONNECTOR 2P
VZ901	⚠ 1-807-180-11	(AV310)....VARISTOR SNR-14A300K
X301	1-567-170-00	OSCILLATOR, CERAMIC (4.194MHz)
XT81	1-577-126-11	VIBRATOR, CRYSTAL (7.2MHz)

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

ACCESSORY & PACKING MATERIAL
****

Part No.	Description
1-501-369-11	(AEP, UK)....ANTENNA
1-501-374-11	ANTENNA, LOOP
3-701-630-00	BAG, POLYETHYLENE
3-750-264-11	(AEP, WG)....MANUAL, INSTRUCTION (ENGLISH, GERMAN)
3-750-264-41	(UK)....MANUAL, INSTRUCTION (ENGLISH)
3-750-264-51	(AEP)....MANUAL, INSTRUCTION (FRENCH, PORTUGUESE, DUTCH, SWEDISH)
*4-931-010-01	CUSHION (BOTTOM)
*4-931-011-01	CUSHION (TOP)

9-953-782-21

Sony Corporation
Audio Group

English
9F0446-1
Printed in Japan
©1989.6

Published by A/V Engineering Service Dept.